QPair

By connecting your tablet and mobile phone via QPair, you can sync incoming calls, messages, and social networking notifications between your tablet and mobile phone.

1 Run **QPair** and tap **Get started** > **Start** on your tablet first and then run the same steps on your phone.

TIP! QPair may not be pre-installed on the phone. Go to Google Play Store and search for QPair and install it.

NOTE: QPair works with phones running Android 4.1 or later. Some features may be limited depending on your phone model.

2 Bluetooth connection will be turned on automatically.

QPair features

Call notifications – Sends the tablet a notification when the phone receives a call. The notification displays the caller's number and allows you to decline the call.

Message notifications – Sends the tablet a notification when the phone receives a message.

Social network notifications – Displays a social networking notification on your tablet's Status Bar when it arrives on your phone.

NOTE: To enable this feature, turn the **QPair social network notifications** option on your phone (**Settings** > **Accessibility** > **QPair social network notifications**). This option allows you to be notified of social networking notifications on your tablet.

QuickMemo transfer – Saves your current QuickMemo in the tablet's Gallery, and then syncs the tablet's Gallery with the Gallery on your phone.

Recent app sticker – When the paired device's screen is unlocked, a sticker will display the last app used on the other device if the app is installed both on the tablet and the phone.

QSlide

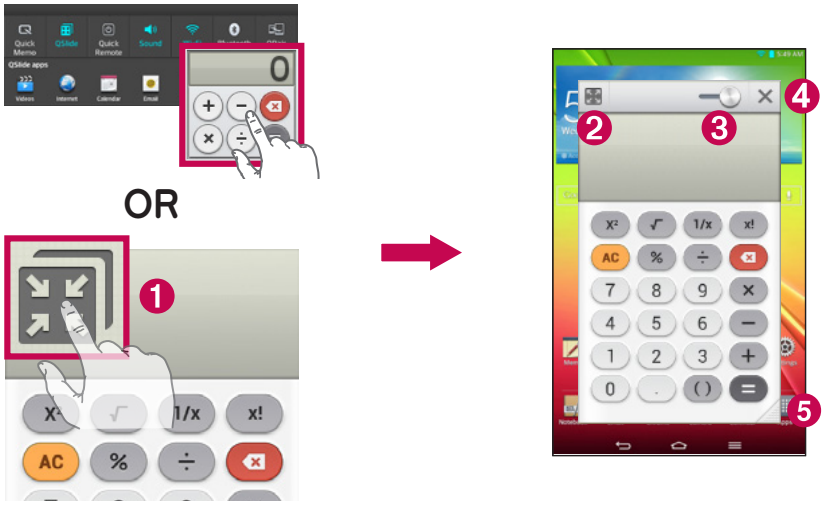
The QSlide function enables an overlay window on your tablet's display for easy multi-tasking. QSlide windows can be opened from the QSlide apps bar on the Notifications panel, or directly from the applications that support the QSlide function.

1 Open the Notifications Panel and tap the desired app from the **QSlide apps** section.

OR

While using an application that supports QSlide, tap . The function will be displayed continuously as a small window on your screen.

2 Slide to adjust the transparency level. Drag the QSlide title bar to move it to another position on the screen.



1	Tap to run QSlide.
2	Tap to exit the QSlide and return to full window.
3	Tap to adjust transparency.
4	Tap to end the QSlide.
5	Tap to adjust the size.

NOTE: The QSlide function can support up to two windows at the same time. QSlide only supports the following applications: Videos, Internet, Memo, Calendar, Calculator, Email, File Manager, and QVoice.

QuickMemo

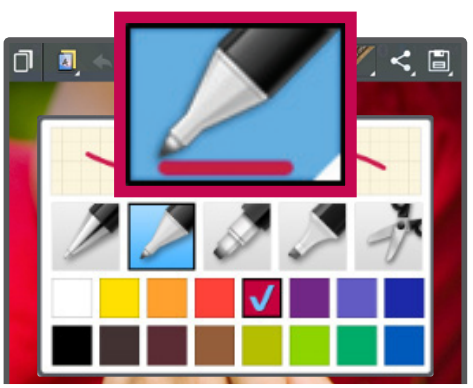
The QuickMemo feature allows you to create memos and capture screen shots. Capture screens, draw on them, and share them with family and friends with QuickMemo.

Creating a QuickMemo

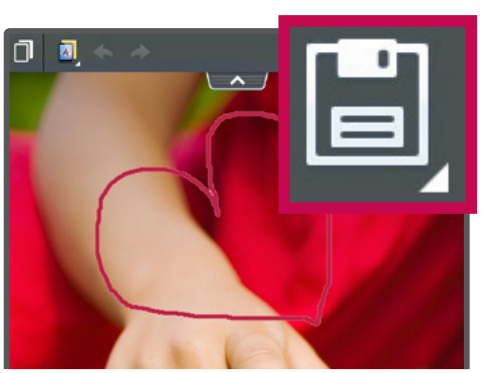
1 To access the QuickMemo feature, slide the Status Bar downwards and touch .

OR

Press both of the **Volume Keys** at the same time for one second.



2 Select the desired menu option from the toolbar and create a memo.



3 Tap to save the memo. To exit QuickMemo at any time, tap the **Back Key** .

NOTE:

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

Using the QuickMemo options

The following options are available in the QuickMemo toolbar at the top of the screen.

	Touch to keep the current memo on the screen and use the tablet simultaneously.
	Allows you to choose the type of background you want to use.
	Allows you to undo and redo previous actions.
	Selects the pen type and color and the cropping tool.
	Erases edits you've made to the memo.
	Touch to send your memo to others or share it via social networking services.
	Saves the memo in the **Notebook** or **Gallery**.

Viewing the saved QuickMemo

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

QuickRemote

QuickRemote turns your tablet into a Universal Remote for your home TV or cable box.

NOTE: QuickRemote may not be available for some devices and areas.

To open the QuickRemote application and set up your QuickRemote(s)

1 From the Home screen, tap the **Apps** > **Apps** tab > **QuickRemote** . You can also perform the initial set up of your QuickRemote from the Notifications Panel. Swipe the Status Bar downward, tap the QuickRemote icon , then tap **ADD REMOTE**. Touch Living room to select a room type and touch + to add the device.

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

NOTE: The QuickRemote operates the same way as an ordinary infrared (IR) remote control in your region or country. Be careful not to cover the infrared sensor at the top of the tablet when you use the QuickRemote function. This function may not be supported depending on the model, the manufacturer or service company.

Using QuickRemote

1 Open **QuickRemote** and choose the room where you configured the remote.

2 Select the remote you want by tapping its type/name on the QuickRemote bar along the left side of the screen.

3 Tap the buttons on the displayed remote.

NOTE: When adding the TV remote control, QuickRemote can use the INPUT button to configure appropriate remote control. When configuring the INPUT button, the TV input source can be changed. To reset the TV input source, tap the INPUT button on QuickRemote several times (depending on the number of devices connected to the TV).

QuickRemote options

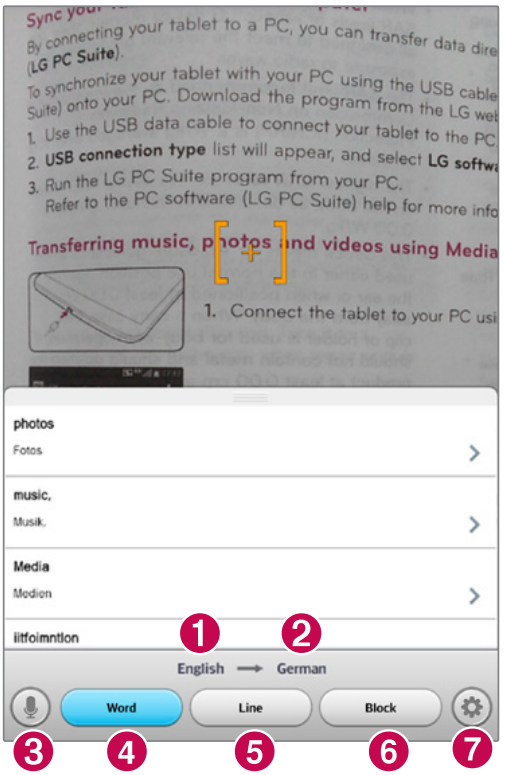
To access the QuickRemote options menu, tap the **Menu Key** to select the desired option.

NOTE: While playing music in the background, pressing any QuickRemote button will mute the sound for a second.

QuickTranslator

Simply aim the camera of your smart tablet at the foreign sentence you want to understand. You can get the real-time translation anywhere and anytime.

You can buy additional dictionaries for offline translation from the Google Play Store.



1. Home language.
2. Destination language.
3. Switches to Voice mode. Tap the language button, then speak.
4. Translation of a written word.
5. Translation of a written sentence.
6. Translation of a paragraph.
7. Accesses the QuickTranslator settings. You can set the home and destination languages here.

1 From the Home screen, tap **Apps** > **Apps** tab > **QuickTranslator**.

2 Tap the translation format. Choose from , **Word**, **Line**, or **Block**.

3 Tap the **Settings** icon and set the home and destination languages.

4 Hold the tablet toward the subject you want to translate for a few seconds.

NOTE: Only one dictionary is provided free of charge. Additional dictionaries must be purchased. Please select the dictionary you would like to install as your complimentary dictionary.

NOTE: There may be a difference in the rate of recognization depending on the size, font, color, brightness and angle of the letters that need to be translated.

Voice Mate

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

To open the Voice Mate application

- From the Home screen, tap the **Apps** > **Voice Mate** .

Using the Voice Mate application

1 Open the **Voice Mate** application.

2 Tap the **Speak** icon to turn it on. Say what you want it to do for you.
   - If you say "Wake me up at 6 AM", Voice Mate will set the alarm for that time.

NOTE: Use Voice Mate in a quiet environment so it can accurately recognize your commands.

Voice Mate Icons

The following Voice Mate icons are displayed at the bottom of the screen:

- Tap to display the Voice Mate QSlide window on the Home screen.
- Tap to say a voice command to execute.
- Tap to type a command to execute.

Voice Mate Options menu

Tap the **Menu Key** to access **Settings** and **Help**.

NOTE:

- When the language setting for Voice Mate is not the same as the default language setting on your tablet, some commands, such as launching apps, may not work.
- When entering text, you can only use letters or numbers.
- Voice Mate recognizes your speech better when you speak slowly.
- You can view examples of various commands by swiping the Voice Mate main screen to the left.

Alarm

Setting your alarm

1 From the Home screen, tap **Apps** > **Apps** tab > **Alarm/Clock** > .

2 Set the desired alarm time.

3 Set **Repeat**, **Snooze duration**, **Vibration**, **Alarm sound**, **Alarm volume**, **Auto app starter**, **Puzzle lock** and **Memo**.

4 Touch **Save**.

NOTE: To change alarm settings in the alarm list screen, touch the **Menu Key** and select **Settings**.

Calculator

Using your calculator

1 From the Home screen, tap **Apps** > **Apps** tab > **Calculator**.

2 Touch the number keys to enter numbers.

3 For simple calculations, touch the function you want to perform (+, −, × or ÷) followed by =.

NOTE:

- For more complex calculations, touch the **Menu Key**, select the **Scientific calculator**, then choose the desired function.
- To view the calculation history, tap **Menu Key** > **Calculation history**.

Calendar

Adding an event to your calendar

1 From the Home screen, tap **Apps** > **Apps** tab > **Calendar**.

2 Tap the drop-down menu at the top left corner to change the calendar view (Day, Week, Month, Year, Agenda).

3 Tap the date you wish to add an event to and tap +.

4 Touch the **Event name** field and enter the event name.

5 Touch the **Location** field and enter the location. Check the date and enter the time you wish your event to start and finish.

6 If you wish to add a note to your event, touch the **Description** field and enter the details.

7 If you wish to repeat the alarm, set **REPEAT** and set **REMINDERS**, if necessary.

8 Touch **Save** to save the event in the calendar.

NOTE: Touch and hold a spot on the calendar to quickly save a calendar event on that date. Simply enter the event name and time, then tap **Save**. You can tap **Details** and enter more information, or update the event with additional details later.

Tasks

The Tasks app can be synchronized with your MS Exchange account. You can create and manage your tasks using your tablet or from MS Outlook or MS Office Outlook Web Access.

1 From the Home screen, tap **Apps** > **Tasks** .

2 Tap the **Add** task icon (in the upper-right corner of the screen).

3 Enter the **Subject**, **Due date**, **Description**, **Repeat**, and **Reminder**, as necessary.

4 Tap **Save**.

File Manager

The File Manager application allows you to manage files in your internal/ external storage.

To open the File Manager application

- From the Home screen, tap **Apps** > **File Manager** .

Voice Recorder

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

Recording a sound or voice

1 From the Home screen, tap **Apps** > **Apps** tab > **Voice Recorder** .

2 Touch to begin recording.

3 Touch to end the recording.

4 Touch to listen to the recording.

NOTE: Touch to access your list of recordings. You can listen to the saved recordings. The available recording time may differ from actual recording time.

Sending the voice recording

1 Once you have finished recording, you can send the audio clip by touching .

2 Choose from any of the available methods for sharing.

Task Manager

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

Task Manager Options

- Touch **Stop** to stop individual apps.
- Tap **Stop all** to stop all currently running apps.
- Tap the **Menu Key** to access **Help**, **Sort by**, and **Settings**.

POLARIS Office 5

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

To create a new document

1 From the Home screen, tap **Apps** > **Apps** tab > **POLARIS Office 5** .

2 Register your email address on the Registration page.

NOTE: You can tap **Skip** to ignore the registration information.

3 Tap to start a new document.

4 Tap a document type from the drop-down list, then choose a template.

5 Enter contents in the document using the tools at the top of the screen and the on-screen keyboard.

6 When you're done working on the document, tap (in the top left corner of the screen), then tap **Save** (or **Save as** to enter a new document name) to save.

7 Enter the document name and touch **Save**.

To view and edit a document on your device

You can now easily view and edit a wide variety of file types, including Microsoft Office documents and Adobe PDF, right on their mobile devices.

1 Open **POLARIS Office 5** and search for a document.

2 Touch the document that you want to view or edit.
When viewing documents using POLARIS Office 5, the objects and layout remain the same as in the original documents.

3 To edit the document, tap .

Google+

Use the Google+ app to stay connected with people via Google's social network service.

From the Home screen, tap **Apps** > **Apps** tab > **Google+** .

NOTE: This application may not be available depending on the region or service provider.

Voice Search

The Voice Search app allows you to search webpages using your voice instead of typing.

1 From the Home screen, tap **Apps** > **Apps** tab > **Voice Search** .

2 Say a keyword or phrase when **Speak now** appears on the screen. Select one of the suggested keywords that appear.

NOTE: This application may not be available depending on the region or service provider.

Downloads

Use the Downloads app to see what files have been downloaded.

From the Home screen, tap **Apps** > **Apps** tab > **Downloads** .

Box

The Box app makes you easy to access and edit your files, share content and stay connected with your files from anywhere on any device.

To open the Box application

• From the Home screen, tap **Apps** > **Apps** tab > **Box** .

The Web

Internet

Use this application to browse the Internet. Browser gives you a fast, full-color world of games, music, news, sports, entertainment and much more, right on your tablet wherever you are and whatever you enjoy.

From the Home screen, tap **Apps** > **Apps** tab > **Internet** .

	Tap to go back one page.
	Tap to go forward one page, to the page you connected to after the current one. This is the opposite of what happens when you touch the **Back Key** , which takes you to the previous page.
	Tap to go to the Home page.
	Tap to add a new tab.
	Tap to access your bookmarks.
	Tap to run QSlide.
	Tap to close the current tab.
	Tap to refresh or stop the current page.

Opening a page

- To open a new page, tap at the top of the browser.
- To go to another web page, tap a tab at the top of the screen to view the page.

Searching the web by voice

Tap the web address field, tap , speak a keyword, and then select one of the suggested keywords that appear.

NOTE: This feature may not be available depending on the region or service provider.

Bookmarks

To open a bookmarked web page, tap on the browser toolbar and select one.

History

Tap on the browser toolbar and select the **History** tab to open a web page from the list of recently-visited web pages. To clear the history, tap the **Menu Key** > **Clear all history**.

Using QSlide

Use this feature to access the Internet without closing the current application.

While viewing content on the browser, tap . You can then browse other information on your tablet. To view the browser in full screen, tap .

Chrome

Use Chrome to search for information and browse web pages.

From the Home screen, tap **Apps** > **Apps** tab > **Chrome** .

NOTE: This application may not be available, depending on your region and service provider.

Viewing web pages

Tap the address field (at the top of the screen), enter a web address or search criteria, and tap Go on the keyboard.

Opening a page

- To go to a new page, tap at the top of the browser.
- To go to another web page, tap the a tab at the top of the screen to select the page.

Searching the web by voice

Tap the address field, tap , speak a keyword and select one of the suggested keywords that appear.

NOTE: This feature may not be available depending on the region or service provider.

Syncing with other devices

Sync open tabs and bookmarks to use with Chrome on another device when you are logged in with the same Google account.

To view open tabs on other devices, tap the **Menu Key** > **Other devices**. You must be signed in to the same Google account on all devices. Select a web page to open.

Adding and viewing bookmarks

To add bookmarks, tap in the URL bar.

To open a bookmarked web page, tap the **Menu Key** > **Bookmarks** and select the desired page.

Chrome Options menu

Tap the **Menu Key** to access the following options.

- **New tab** – Tap to open a new web page tab.
- **New incognito tab** – Tap to open a new incognito tab.
- **Bookmarks** – Displays your bookmarked web pages.
- **Other devices** – Displays your open web pages on other devices.
- **History** – Displays your browsing data (web pages you've visited).
- **Share...** – Allows you to share the web page.
- **Print...** – Tap to print the web page. Choose to automatically find a printer on your network, or manually enter one to use.
- **Find in page** – Allows you to search for text on the current web page.
- **Request desktop site** – Checkmark to access the desktop site when you view web pages on your tablet.
- **Settings** – Allows you to change the settings specific to the Chrome app.
- **Help** – Displays information about using the Chrome app on your tablet.

Access the Settings menu

1 From the Home screen, tap **Apps** > **Apps** tab > **Settings** .

OR

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

2 Select a setting category and set the desired option.

WIRELESS NETWORKS

Wi-Fi

Wi-Fi – Turns on Wi-Fi to connect to available Wi-Fi networks.

A list of all available Wi-Fi networks will be displayed. Tap one to connect to it.

NOTE: Tap **Search** to scan for available Wi-Fi networks.

Tap the **Menu Key** in the Wi-Fi menu to access the following options.

WPS Push Button – Allows you to connect to a secured Wi-Fi network with a WPS button.

WPS Pin Entry – Allows you to connect to a secured Wi-Fi network with a WPS PIN.

Add network – Allows you to manually enter a new Wi-Fi network.

Wi-Fi Direct – Allows direct connection with Wi-Fi devices without any access point.

Advanced Wi-Fi – Accesses the advanced Wi-Fi settings.

Interactive tutorial – Displays some useful tutorials for the Wi-Fi function.

TIP! How to obtain the MAC address

To set up a connection in some wireless networks with MAC filters, you may need to enter the MAC address of your tablet in the router.

You can find the MAC address in the following user interface: From the Home screen, tap **Apps** > **Settings** > **Wi-Fi** > **Menu Key** > **Advanced Wi-Fi** > **MAC address**.

Bluetooth

Turn the Bluetooth wireless feature on or off to use Bluetooth. Turning Bluetooth on allows you to pair and connect to other Bluetooth devices.

Tap the **Menu Key** in the Bluetooth menu to access the following options.

Edit tablet name – Changes your tablet name for easy identification when pairing and connecting. Enter your new tablet name, then tap **Save**.

Visibility timeout – Sets the amount of time other Bluetooth devices can see your tablet for pairing and connection. Choose from **2 minutes**, **5 minutes**, **1 hour**, and **Never time out**.

Show received files – Displays a list of your Bluetooth received files.

Interactive tutorial – Displays some useful tutorials about Bluetooth features.

Data usage

Displays the data usage during the chosen periods of time. Tap an app from the list to view the app's data usage.

More...

Allows you to share folders with other devices via wireless connection.

Airplane mode – Allows you to set Airplane mode. Activating Airplane mode disables all wireless connections.

Wireless storage – You can manage files on your tablet in the computer or copy files to the tablet from the computer without a USB connection. Make sure that the tablet and computer are connected to the same network. Then, enter the web addresses shown on your tablet into the address bar of the browser on your computer.

Miracast – Allows you to wirelessly mirror your tablet screen and sound onto a Miracast dongle or TV.

SmartShare Beam – Allows you to receive multimedia content via SmartShare Beam from LG phones or tablets.

Media server – Allows to share media contents with nearby devices via DLNA.

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

NOTE: You must set a lock screen PIN or password before you can use credential storage.

DEVICE

Sound

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

Volumes – Manage the volume for **Notifications**, **Touch feedback & system**, and **Music**, **video**, **games & other media**.

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

Touch sounds – Allows you to set your tablet to play a sound when you touch buttons, icons and other onscreen items that react to your touch.

Screen lock sound – Allows you to set your tablet to play a sound when locking and unlocking the screen.

Vibrate on touch – Allows you to set the vibration feedback when the tablet screen is touched.

Display

Home screen

Theme – Sets the screen theme for your device.

Wallpaper – Sets the wallpaper to use on your Home screen.

Screen swipe effect – Sets the effect when you swipe to change screens.

Allow Home screen looping – Checkmark to set the Home screens to scroll continuously, eliminating the need to scroll back in the opposite direction when you reach one end.

Home backup & restore – Allows you to backup and restore app and widget configurations and themes.

Do you know? – Enable this option to display the Do you know? help page as an additional Home screen canvas.

Help – Displays information about the Home screen.

Lock screen

Select screen lock – Set a screen lock type to secure your tablet.

Screen swipe effect – Sets the screen swipe effect options.

Weather animation – Checkmark to show weather animation for the current location or primary city set in Weather based on auto data updates.

Wallpaper – Sets your Lock screen wallpaper. Select it from **Gallery** or **Wallpaper gallery**.

Shortcuts – Allows you to change the shortcuts on the Swipe Lock screen.

Contact info for lost phone – Checkmark to set contact info to be displayed on the Lock screen in case the phone is lost. Tap ⚙ to enter the text you want displayed as the contact info.

Portrait view only – Checkmark to always display the Lock screen in portrait view.

Lock timer – Sets the amount of time before the screen automatically locks after the screen has timed-out.

Power button instantly locks – Checkmark to instantly lock the screen when the Power/Lock Key is pressed. This setting overrides the Security lock timer setting.

Brightness – Adjust the screen brightness. Touch **Auto** to set the brightness to automatically change.

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

KnockON – This feature allows you to turn the screen on and off. Quickly double-tap the center of the screen to turn it on. Double-tap the Status Bar, an empty area on the Home screen, or the Lock screen to turn the screen off. For the best results, do not move the tablet while using the KnockON feature.

Screen-off effect – Sets the screen-off effect used when the screen turns off.

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

Daydream – Tap the Daydream switch OFF ON to toggle it On or Off. On allows the set screen saver to be displayed when the tablet is sleeping while docked and/or charging. Choose from **Clock**, **Colors**, **Google Photos**, **Photo Frame**, and **Photo Table**.

NOTE: Charging might be slow while the screen saver is on.

Font type – Change the type of display font.

Font size – Change the size of the display font.

Smart screen – Keeps the screen on when the device detects your eyes looking at the screen.

Smart video – Checkmark to pause the video when it doesn't detect your eyes looking at the screen.

Front touch buttons – Set the Front Touch Keys displayed at the bottom of all of the screens. Set which ones are displayed, their position on the bar, and what they look like. You can also select the theme and the background.

Motion sensor calibration – Allows you to improve the accuracy of the tilt and speed of the sensor.

Storage

INTERNAL STORAGE – Displays the total amount of space in the device's memory and lists what type of data is using up space.

SD CARD – Displays the total amount of memory space on the microSD card.

Mount/Unmount SD card – Mounts and unmounts the microSD card from your tablet so that you can access the data stored in it, format the card, or safely remove it. This setting is dimmed if there's no microSD card installed, if you've already unmounted it, or if you've mounted the microSD card on your computer.

Erase SD card – Permanently erases everything on the microSD card and prepares it for use with your tablet.

Battery

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

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

Battery saver – Manage the battery for the power saving items. Tap the switch OFF ON to turn this feature on. Tap **Battery saver** for the following options.

- **Turn Battery save on:** Set the battery level at which you want Battery saver to turn on.
- **Auto-sync:** Turns off Auto-sync.
- **Wi-Fi:** Turns off Wi-Fi if data is not in use.

- **Bluetooth:** Turns off Bluetooth if not connected.
- **Vibrate on touch:** Turns off touch feedback.
- **Brightness:** Adjusts the brightness.
- **Screen timeout:** Adjusts the screen timeout.

Help – Touch to access some tips for Power saver.

Apps

Display the list of applications such as currently running or downloaded.

Swipe left and right to view one of the three tabs across the top of the screen to view detailed information for **DOWNLOADED**, **RUNNING**, and **ALL** applications.

Tap an entry to view more information, tap **Force stop** (or **Stop**), then **OK** to stop it from running.

Slide Aside

Slide Aside allows you to quickly switch between three open applications (or tasks) using a three finger gesture. Refer to page 31 for more information.

PERSONAL

Accounts & sync

Permits applications to synchronize data in the background, whether or not you are actively working in them. Deactivating **Auto-sync data** can save battery power and lower (but not eliminate) data usage.

Cloud

Tap **Add account** to add a cloud account.

Users

Checkmark to set the device owner's name to be displayed on the Lock screen. Tap ⚙ to enter the text to be displayed as the Owner info.

Add user – Allows you to add new account for the tablet and use the Multi-user feature.

Location access

Mode

High accuracy – Use GPS and Wi-Fi networks to estimate location.

Battery saving – Use Wi-Fi networks to estimate location.

Device sensors only – Use GPS to pinpoint your location.

RECENT LOCATION REQUESTS - Displays apps that have recently requested your location information.

LOCATION SERVICES

Google Location Reporting – Allows you to view your Google location settings.

Security

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

Encrypt SD card storage – Allows you to encrypt data on the MicroSD for security.

Password typing visible – Shows the last character of the hidden password as you type.

Tablet administrators – View or deactivate tablet administrators.

Unknown sources – Allows installation of apps from non-Play Store applications.

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

Storage type – Displays the storage type for certificates.

Trusted credentials – Displays trusted CA certificates.

Install from storage – Choose to install encrypted certificates.

Clear credentials – Remove all certificates.

Language & input

Use the Language & input settings to select the language for the text on your tablet and to configure the on-screen keyboard, including words you've added to its dictionary.

Backup & reset

Back up my data – Set to backup your settings and application data to the Google server.

Backup account – Set the account to which you want to backup data to.

Automatic restore – Set to restore your settings and application data when the applications are reinstalled on your device.

LG Backup service – Backs up all information on the device and restores it in the event of data loss or replacement.

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

SYSTEM

Date & time

Use Date & time settings to set how dates will be displayed. You can also use these settings to set your own time and time zone rather than obtaining the current time from the mobile network.

Accessibility

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

NOTE: Requires additional plug-ins to become selectable.

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

On-Screen Phone – Allows you to turn the On-Screen Phone feature on and off.

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

Invert colors – Checkmark to invert the colors of the screen and content.

Color adjustment – Sets to view the screen with greater color contrast. Tap the switch OFF ON to turn it on. Then tap the screen and drag across the screen in any direction until you see the color contrast you want to use.

Touch zoom – Allows you to zoom in and out by triple-tapping the screen.

Screen shades – Dims the screen's backlight.

Mono audio – Checkmark to combine both audio channels to play in each ear. To manually set the audio route, move the slider on the mono audio slide bar.

Captions – Allows to customize caption settings for those with hearing impairments. Tap the switch OFF ON to turn this feature on. Set the language, text size, and caption style options as desired.

Touch feedback time – Sets the touch and feedback time. Choose from **Short**, **Medium**, and **Long**.

Universal touch – Touch the switch OFF ON to toggle between on and off. On allows you to replace the hardware keys with a Universal touch board . Tap the Universal touch icon to access the **Power**, **Home**, **Volume down**, **Volume up**, and **Pinch** buttons. Draw a "W" on the board to automatically launch the browser application.

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

Read passwords – Checkmark to have verbal confirmation when inputting passwords.

Accessibility settings shortcut – Sets quick, easy access to selected features when you triple-tap Home Key.

Text-to-speech output – Sets the text-to-speech preferred engine and speech rate setting. Also plays a short demonstration of speech synthesis. The default language status is also displayed.

PC connection

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

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

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

PC Suite – Allow Wi-Fi connection to transfer music and images between a computer and the phone.

Help – Displays help information for the PC Suite function.

Accessory

Quick Cover – Activate the Quick Cover to turn the screen on or off automatically.

USB storage Plug & Pop – Sets the Plug & Pop feature for USB storage. Checkmark each desired option to automatically display that app on the app panel. Drag ☰ to change the icon location.

Earphone Plug & Pop – Sets the Plug & Pop feature for earphones. Checkmark each desired option to automatically display that app on the app panel. Drag ☰ to change the icon location.

Dock Plug & Pop – Sets the Plug & Pop features for Dock. Checkmark each desired option to automatically display that app on the app panel. Drag ☰ to change the icon location.

Printing

Allows you to print the content of certain screens (such as web pages displayed in Chrome) to a printer connected to the same Wi-Fi network as your Android device.

About tablet

This menu allows you to manage your software updates and view various information relating to your tablet.

Tablet name – Allows you to set your tablet name.

Update Center – Allows you to check for app and software updates.

Battery – Allows you to view battery status, battery level, and battery use information.

Hardware information – Allows you to view the model number, IP address, up time, CSN, Wi-Fi MAC address and Bluetooth address.

Software information – Allows you to view Android version, kernel version, build number, and software version.

Legal information – Allows you to view open source licenses and Google legal information.

LG Backup

About backing up and restoring device data

It is recommended that you regularly create and save a backup file on the internal storage, especially before updating any software. Maintaining a current backup file in storage memory may allow you to recover device data if your device is lost, stolen, or corrupted by an unforeseen issue.

This LG Backup application is supported between LG smartphones and tablets, other software or operating system versions. As a result, when you buy the new LG smartphones and tablets, you can backup the current device data to your new device.

If you have the LG Backup application preloaded on your smartphones and tablets, you can backup and restore most of your data, including downloaded and pre-installed applications, bookmarks, calendar entries, contacts, home screen settings, and system settings. You may also:

- Perform a manual LG Backup of your device.
- Schedule automatic backups of your device.
- Restore your device data.

Warning! To protect against an unexpected power off during backup or restore operations, due to insufficient battery power, you should always keep your battery fully charged.

LG Backup your tablet data

1 From the Home screen, tap **Apps** > **Apps** tab > **LG Backup** > **Backup**.
2 Select the check box for the items you want to backup and select **Next**.
3 On the Backup Location screen, touch **Internal storage** or **SD card**, then tap **Next**, followed by **Start**.
4 When all selected files have been backed up, you will see the message **Backup completed**.

Scheduling automatic backups

You can also program automatic backups for the data on your tablet according to your schedule setting. To do this, complete the following steps:

1 From the Home screen, tap **Apps** > **Apps** tab > **LG Backup** > **Scheduled backup**.
2 Tap **Backup items** and select the check box next to the item you want to backup.
3 Tap **Backup location**, and select **Internal storage** or **SD card**.
4 Set the backup time and scheduled backup files.
5 Tap the switch OFF ON to activate automatic backups.

Restoring tablet data

NOTE: All files that are stored on your tablet are deleted before the backup file is restored.

1 From the Home screen, tap **Apps** > **Apps** tab > **LG Backup** > **File restore & management**.

2 On the Restore screen, select a backup file that contains the data you wish to restore.

3 Select the check box next to the item you wish to restore and select **Next** to restore it to your tablet.

NOTE: Please note that your tablet data will be overwritten with the content of your backup.

4 If the backup file is encrypted, type the password that you created to encrypt it.

5 When all selected files have been restored, the tablet will automatically be restart.

NOTE: You can set the lock option when creating a backup to encrypt your backup files for extra protection.

On the LG Backup main screen, touch the **Menu Key** > **Set password** and enter a password and hint in case you forgot your password. Once you have set up a password, you need to enter it every time you want to do backup/restore.

Tablet software update

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

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

LG tablet software update via Over-the-Air (OTA)

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

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

To perform the tablet software update, from the Home screen, tap the **Menu Key** > **System settings** > **About tablet** > **Update Center** > **Software Update** > **Check now for update**.

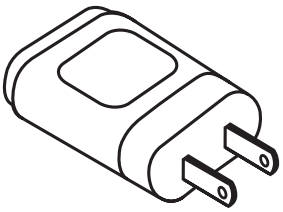
NOTE: LG reserves the right to make firmware updates available only for selected models at its own discretion and does not guarantee the availability of the newer version of the firmware for all tablet models.

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

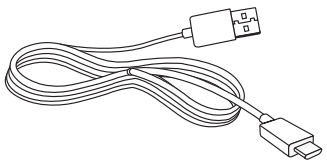
Accessories

These accessories are available for use with the your tablet. **(Items described below may be optional.)**

Travel adaptor



USB cable



Quick Start Guide

NOTE:

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

Troubleshooting

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

Message	Possible causes	Possible corrective measures
No applications can be set	Not supported by service provider or registration required.	Contact your service provider.
Charging error	Battery is not charged.	Charge battery.
	Outside temperature is too hot or cold.	Make sure tablet is charging at a normal temperature.
	Contact problem	Check the charger and its connection to the tablet.
	No voltage	Plug the charger into a different socket.
	Charger defective	Replace the charger.
	Wrong charger	Use only original LG accessories.
Impossible to receive / send photos	Memory full	Delete some images from your tablet.

Message	Possible causes	Possible corrective measures
Files do not open	Unsupported file format	Check the supported file formats.
No sound	Vibration mode	Check the settings status in the sound menu to make sure you are not in vibration or silent mode.

Safety Information

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

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

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

⚠ **WARNING**

Notice for Battery replacement

- 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.
- Li-Ion Battery is a hazardous component which can cause injury.
- Battery replacement by non-qualified professional can cause damage to your device.

- Do not disassemble or open crush, bend or deform, puncture or shred.
- Repairs under warranty, at LG's option, may include replacement parts or boards that are either new or reconditioned, provided that they have functionality equal to that of the parts being replaced.

- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.
- Only use the battery for the system for which it is specified.
- Only use the battery with a charging system that has been qualified with the system per this standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
- Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725-200x. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.
- Promptly dispose of used batteries in accordance with local regulations.
- Avoid dropping the tablet. If the tablet is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- Improper battery use may result in a fire, explosion or other hazard.
- For those host devices that utilize a USB port as a charging source, the host device's user manual shall include a statement that the device shall only be connected to products that bear the USB-IF logo or have completed the USB-IF compliance program.

Charger and Adapter Safety

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

- Use the correct adapter for your tablet when using the battery pack charger abroad.

Battery Information and Care

- Please read the manual of proper installation and removal of the battery.
- Please read the manual of specified charger about charging method.
- Do not damage the power cord by bending, twisting, or heating. Do not use the plug if it is loose as it may cause electric shock or fire.
  Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause electric shock or fire.
- Unplug the power cord prior to cleaning your tablet, 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 tablet in a pocket or bag without covering the receptacle of the tablet (power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the tablet. Short-circuit of the terminal may damage the battery and cause an explosion. Always cover the receptacle when not in use.
- Recharge the battery after long periods of non-use to maximize battery life. Battery life will vary due to usage pattern and environmental conditions.
- Never store your tablet in temperature less than -4 °F or greater than 122 °F.
- Charging temperature range is between 32 °F and 113 °F. Do not charge the battery out of recommended temperature range. Charging out of recommended range might cause the generating heat or serious damage of battery. And also, it might cause the deterioration of battery's characteristics and cycle life.

- Do not use or leave the device under the blazing sun or in heated car by sunshine. The device may generate heat, smoke or flame. And also, it might cause the deterioration of battery's characteristics or cycle life.
- The battery back in the device has protection circuit to avoid the danger. Do not use near places that can generate static electricity more than 100 V which could damage the protection circuit. Damaged protection circuits may generate smoke, rupture or ignite.
- When using the device for the first time, if it emits a bad smell, you see rust on it, or anything else abnormal, do not use the equipment and bring the battery to the shop which it was bought.
- Keep device away from babies and small children. If children use the battery, their parents or legal guardians are responsible for supervising and teaching them about the safe handling of device and how to use batteries according to the manual with care.
- If liquid from the battery in the device rubs against skin or clothing, wash with fresh water. It may cause the skin inflammation. Do not user the battery and take it to the nearest authorized LG Electronics service point or dealer for assistance. Be careful that children do not swallow any parts (such as earphone, connection parts of the device, etc.). This could cause asphyxiation or suffocation resulting in serious injury or death.
- Do not handle the tablet with wet hands while it is being charged. It may cause an electric shock or seriously damage your tablet.
- Do not use harsh chemicals (such as alcohol, benzene, thinners, etc.) or detergents to clean your tablet. This could cause a fire.
- Always unplug the charger from the wall socket after the tablet is fully charged to save unnecessary power consumption of the charger.

Care and Maintenance

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

Keep your Mobile Device away from:
Liquids of any kind

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

Do not use the mobile device with a wet hand.

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

Extreme heat or cold

- Avoid temperatures below 0 °C / 32 °F or above 45 °C / 113 °F.
- Use your tablet in temperatures between 0 °C /32 °F and 40 °C/104 °F, if possible. Exposing your tablet to extremely low or high temperatures may result in damage, malfunction, or even explosion.

Microwaves

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

Dust and dirt

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

Sunscreen lotion

Do not expose or wear your device to any liquid like sunscreen lotion.

Doing so may cause your device to or damage to the mobile device.

Cleaning solutions

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the mobile device.

Wipe it with a soft cloths lightly dampened in a mild soap-and-water solution.

Shock or vibration

Do not drop, knock, or shake the mobile device.

Rough handling can break internal circuit boards.

Paint

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

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.
- When the tablet is not used for a long period time, store it in a safe place with the power cord unplugged.
- Do not use the device if the antenna is damaged. If a damaged antenna contacts skin, it may cause a slight burn. Please contact an LG Authorized Service Center to replace the damaged antenna.

- The data saved in your tablet might be deleted due to careless use, repair of the tablet, or upgrade of the software. Please backup your important contacts. (pictures, and videos could also be deleted.) The manufacturer is not liable for damage due to the loss of data.
- When you use the tablet in public places, set the volume to vibration so you don't disturb others.
- Do not turn your tablet on or off when putting it to your ear.
- Your device is an electronic device that generates heat during normal operation. Extremely prolonged, direct skin contact in the absence of adequate ventilation may result in discomfort or minor burns. Therefore, use care when handling your device during or immediately after operation.
- Use accessories, such as earphones and headsets, with caution. Ensure that cables are tucked away safely and do not touch the antenna unnecessarily.

Part 15.19 statement

This device complies with part 15 of FCC rules.

Operation is subject to the following two conditions:

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

Part 15.21 statement

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

Part 15.105 statement

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

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

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.

Bodily Contact During Operation

This device was tested for typical use with the back of the device kept 0 inch (0 cm) from the body.

Caution

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

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

Consumer Information About Radio Frequency Emissions

Your wireless 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 device 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 the devices 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/oet/rfsafety or through the FCC at (888) 225-5322 or (888) CALL-FCC.

What does "SAR" mean?

In 1996, the FCC, working with the FDA, the U.S. Environmental Protection Agency, and other agencies, established RF exposure safety guidelines for wireless 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 device 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. 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 as required by the FCC for each model.

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/ea/fccid/ after searching on FCC ID ZNFV410.

For more information about SARs, see the FCC's OET Bulletins 56 and 65 at http://www.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins or visit the Cellular Telecommunications Industry Association website at http://www.ctia.org/consumer_info/index.cfm/AID/10371. You may also wish to contact the manufacturer of your 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 device 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 device causes brain tumors or other ill effects. [The UK's] recommendation to limit device 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 device and RF are available online at www.iegmp.org.uk and http://www.hpa.org.uk/radiation/ (search "mobile"). Parents who wish to reduce their children's RF exposure may choose to restrict their children's wireless 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

FDA Consumer magazine

November-December 2000

Telephone: (888) INFO-FDA

http://www.fda.gov
(Under "C" in the subject index, select Cell Phones > Research.)

U.S. Federal Communications Commission

445 12th Street, S.W.

Washington, D.C. 20554

Telephone: (888) 225-5322

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

Independent Expert Group on Mobile Devices

http://www.iegmp.org.uk

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

283 Sparks Street

Ottawa, Ontario K1R 7X9

Canada

Telephone: (613) 991-6990

World Health Organization

Avenue Appia 20

1211 Geneva 27

Switzerland

Telephone: 011 41 22 791 21 11

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

International Commission on Non-Ionizing Radiation Protection

c/o Bundesamt fur Strahlenschutz

Ingolstaedter Landstr. 1

85764 Oberschleissheim

Germany

Telephone: 011 49 1888 333 2156

http://www.icnirp.de

Wi-Fi Caution

This device is capable of operating in 802.11a/n mode. For 802.11a/n devices operating in the frequency range of 5.15 - 5.25 GHz, they are restricted for indoor operations to reduce any potential harmful interference for Mobile Satellite Services (MSS) in the US. Wi-Fi Access Points that are capable of allowing your device to operate in 802.11a/n mode (5.15 - 5.25 GHz band) are optimized for indoor use only.

If your Wi-Fi network is capable of operating in this mode, please restrict your Wi-Fi use indoors to not violate federal regulations to protect Mobile Satellite Services.

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

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

Consumer Information on SAR

(Specific Absorption Rate)

This model device meets the government's requirements for exposure to radio waves.

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

The exposure standard for wireless mobile devices 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 as required by the FCC for each model.

.
The highest SAR value for this device is 0.95W/kg.
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 ZNFV410. 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 device 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.

Caution:
Avoid potential hearing loss.

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

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

- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.
- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise.
- Limit the amount of time you listen. As the volume increases, less time is required before your hearing could be affected.
- Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.
- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

You can obtain additional information on this subject from the following sources:

Safety 205

American Academy of Audiology 11730
Plaza American Drive, Suite 300

Reston, VA 20190

Voice: (800) 222-2336

Email: info@audiology.org

Internet: www.audiology.org

National Institute on Deafness and Other Communication

Disorders

National Institutes of Health

31 Center Drive, MSC 2320

Bethesda, MD USA 20892-2320

Voice: (301) 496-7243

Email: nidcdinfo@nih.gov

Internet: http://www.nidcd.nih.gov/health/hearing

National Institute for Occupational Safety and Health Hubert H. Humphrey Bldg.

200 Independence Ave., SW Washington, DC 20201 Voice:
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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).

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

Antenna Care

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

Tips on Efficient Operation

For your device to operate most efficiently:

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

Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless 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 tablet OFF immediately if there is any reason to suspect that interference is taking place.

Hearing Aids

Some digital wireless device 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 tablet 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.

FDA Consumer Update

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

1. Do tablets pose a health hazard?

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

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

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

Under the law, the FDA does not review the safety of radiation-emitting consumer products such as tablets before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if tablets 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 tablets to notify users of the health hazard and to repair, replace, or recall the tablets so that the hazard no longer exists.

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

- Support needed research into possible biological effects of RF of the type emitted by tablets;
- Design tablets in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of tablets with the best possible information on possible effects of tablet 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 tablets with the Federal Communications Commission (FCC). All tablets 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 tablets.

The FCC also regulates the base stations that the tablet networks rely upon. While these base stations operate at higher power than do the tablets themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from tablets. 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.

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 tablets poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using tablets 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 tablets. Many factors affect this measurement, such as the angle at which the tablet is held, or which model of tablet is used.

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

All tablets 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 tablet and is set well below levels known to have effects. Manufacturers of tablets must report the RF exposure level for each model of tablet to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your tablet so you can find your tablet's RF exposure level in the online listing.

8. What has the FDA done to measure the Radio Frequency energy coming from tablets?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the Radio Frequency (RF) energy exposure from tablets 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 and bodies of tablet users. The test method uses a tissue-simulating model of the human head and body. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same tablet. 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 tablet complies with safety guidelines.

9. What steps can I take to reduce my exposure to Radio Frequency energy from my tablet?

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 tablet will reduce RF exposure. If you must conduct extended conversations using a 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 tablet away from your body or use a wireless device connected to a remote antenna. Again, the scientific data does not demonstrate that tablets 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 tablet use.

10. What about children using tablets?

The scientific evidence does not show a danger to users of tablets, 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 tablets. Reducing the time of tablet 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 communications device interference with medical equipment?

Radio Frequency (RF) energy from wireless communications 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 devices. 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 communications 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 communications 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 communications 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.

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12. Where can I find additional information?

For additional information, please refer to the following resources:

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

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

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

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

Driving

Check the laws and regulations on the use of wireless 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 using it.

How to update your tablet

Access to latest firmware releases, new software functions and improvements.

- Update your tablet without a PC: Select **Update Center** > **Software Update** > **Check now for update**.
- Update your tablet by connecting it to your PC.

For more information about using this function, please visit **http://www.lg.com/common/index.jsp** and select the country and language.

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1. WHAT THIS WARRANTY COVERS:

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

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

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

(8) All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal customer use.
(9) Products operated outside published maximum ratings.
(10) Products used or obtained in a rental program.
(11) Consumables (such as fuses).

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

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5. HOW TO GET WARRANTY SERVICE:

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

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Or visit http://us.lgservice.com. Correspondence may also be mailed to:

LG Electronics Service- Mobile Handsets, P.O. Box 240007, Huntsville, AL 35824

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

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