



ENGLISH



CE0168 

User Guide

LG-P990

MFL67759926 (1.0)

www.lg.com

Product Authentication program

Dear Customers,

To protect all LG customers from counterfeit and grey market products and make sure that you receive official warranty service, LG is now running a product authentication program.

To make sure your handset is a genuine product of LG, ONLY one SMS containing the IMEI No. of your purchased handset will be automatically sent to LG on the date of purchase.

Once your phone is authenticated, you will receive the message 'Your handset is a genuine LG product.' The customer shall bear the cost of one SMS for the product authentication program.

In return, you will receive one additional month of warranty for free.

One additional month of warranty covers only mobile phone, not batteries and accessories.

The IMEI No. sent to LG guarantees your handset to be free from manufacturing defects during the warranty period from the date of purchase without proof of purchase or warranty card.

LG-P990 User Guide

This guide helps you to get started using your phone.

- Some of the contents of this manual may not apply to your phone, depending on the software and your service provider.
- This handset is not suitable for people who have a visual impairment due to the touch screen keyboard.
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Guidelines for safe and efficient use

Please read these simple guidelines. Not following these guidelines may be dangerous or illegal.

Exposure to radio frequency energy

Radio wave exposure and Specific Absorption Rate (SAR) information.

This mobile phone model LG-P990 has been designed to comply with applicable safety requirements for exposure to radio waves. These requirements are based on scientific guidelines that include safety margins designed to assure the safety of all persons, regardless of age and health.

- The radio wave exposure guidelines employ a unit of measurement known as the Specific Absorption Rate, or SAR. Tests for SAR are conducted using standardised methods with the phone transmitting at its highest certified power level in all used frequency bands.
- While there may be differences between the SAR levels of various LG phone models, they are all designed to meet the relevant guidelines for exposure to radio waves.
- The SAR limit recommended by the International Commission on Non-Ionizing Radiation Protection (ICNIRP) is 2 W/kg averaged over 10g of tissue.

- The highest SAR value for this model phone tested by DASY4 for use at the ear is 0.545 W/kg (10g) and when worn on the body is 0.897 W/Kg (10g).
- This device meets RF exposure guidelines when used either in the normal use position against the ear or when positioned at least 1.5 cm away from the body. When a carry case, belt clip or holder is used for body-worn operation, it should not contain metal and should position the product at least 1.5 cm away from your body. In order to transmit data files or messages, this device requires a quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure the above separation distance instructions are followed until the transmission is completed.

Product care and maintenance

WARNING

Only use batteries, chargers and accessories approved for use with this particular phone model. The use of any other types may invalidate any approval or warranty applying to the phone and may be dangerous.

Guidelines for safe and efficient use

- Do not disassemble this unit. Take it to a qualified service technician when repair work is required.
- Repairs under warranty, at LG's discretion, 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.
- Keep away from electrical appliances such as TVs, radios and personal computers.
- The unit should be kept away from heat sources such as radiators or cookers.
- Do not drop.
- Do not subject this unit to mechanical vibration or shock.
- Switch off the phone in any area where you are required to by special regulations. For example, do not use your phone in hospitals as it may affect sensitive medical equipment.
- Do not handle the phone with wet hands while it is being charged. It may cause an electric shock and can seriously damage your phone.
- Do not charge a handset near flammable material as the handset can become hot and create a fire hazard.
- Use a dry cloth to clean the exterior of the unit (do not use solvents such as benzene, thinner or alcohol).
- Do not charge the phone when it is on soft furnishings.
- The phone should be charged in a well ventilated area.
- Do not subject this unit to excessive smoke or dust.
- Do not keep the phone next to credit cards or transport tickets; it can affect the information on the magnetic strips.
- Do not tap the screen with a sharp object as it may damage the phone.
- Do not expose the phone to liquid or moisture.
- Use accessories like earphones cautiously. Do not touch the antenna unnecessarily.
- Do not use, touch or attempt to remove or fix broken, chipped or cracked glass. Damage to the glass display due to abuse or misuse is not covered under the warranty.
- Your phone is an electronic device that generates heat during normal operation. Extremely prolonged, direct skin contact in the absence of adequate ventilation may result in discomfort or minor burns. Therefore, use care when handling your phone during or immediately after operation.

Efficient phone operation

Electronics devices

All mobile phones may receive interference, which could affect performance.

- Do not use your mobile phone near medical equipment without requesting permission. Avoid placing the phone over pacemakers, for example, in your breast pocket.
- Some hearing aids might be disturbed by mobile phones.
- Minor interference may affect TVs, radios, PCs etc.

Road safety

Check the laws and regulations on the use of mobile phones in the area when you drive.

- Do not use a hand-held phone while driving.
- Give full attention to driving.
- Pull off the road and park before making or answering a call if driving conditions so require.
- RF energy may affect some electronic systems in your vehicle such as car stereos and safety equipment.

- When your vehicle is equipped with an air bag, do not obstruct with installed or portable wireless equipment. It can cause the air bag to fail or cause serious injury due to improper performance.
- If you are listening to music whilst out and about, please ensure that the volume is at a reasonable level so that you are aware of your surroundings. This is of particular importance when near roads.

Avoid damage to your hearing



To prevent possible hearing damage, do not listen at high volume levels for long periods.

Damage to your hearing can occur if you are exposed to loud sound for long periods of time. We therefore recommend that you do not turn on or off the handset close to your ear. We also recommend that music and call volumes are set to a reasonable level.

- 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.

NOTE: Excessive sound pressure from earphones and headphones can cause hearing loss.

Guidelines for safe and efficient use

Glass Parts

Some parts of your mobile device are made of glass. This glass could break if your mobile device is dropped on a hard surface or receives a substantial impact. If the glass breaks, do not touch or attempt to remove it. Stop using your mobile device until the glass is replaced by an authorised service provider.

Blasting area

Do not use the phone where blasting is in progress. Observe restrictions and follow any regulations or rules.

Potentially explosive atmospheres

- Do not use your phone at a refueling point.
- Do not use near fuel or chemicals.
- Do not transport or store flammable gas, liquid or explosives in the same compartment of your vehicle as your mobile phone or accessories.

In aircraft

Wireless devices can cause interference in aircraft.

- Turn your mobile phone off before boarding any aircraft.
- Do not use it on the ground without permission from the crew.

Children

Keep the phone in a safe place out of the reach of small children. It includes small parts which may cause a choking hazard if detached.

Emergency calls

Emergency calls may not be available on all mobile networks. Therefore you should never depend solely on your phone for emergency calls. Check with your local service provider.

Battery information and care

- You do not need to completely discharge the battery before recharging. Unlike other battery systems, there is no memory effect that could compromise the battery's performance.
- Use only LG batteries and chargers. LG chargers are designed to maximise the battery life.
- Do not disassemble or short-circuit the battery.
- Keep the metal contacts of the battery clean.
- Replace the battery when it no longer provides acceptable performance. The battery pack may be recharged hundreds of times before it needs replacing.
- Recharge the battery if it has not been used for a long time to maximise usability.

- Do not expose the battery charger to direct sunlight or use it in high humidity, such as in the bathroom.
- Do not leave the battery in hot or cold places, as this may deteriorate battery performance.
- There is risk of explosion if the battery is replaced with an incorrect type.
- Dispose of used batteries according to the manufacturer's instructions. Please recycle when possible. Do not dispose as household waste.
- If you need to replace the battery, take it to the nearest authorised LG Electronics service point or dealer for assistance.
- Always unplug the charger from the wall socket after the phone is fully charged to save unnecessary power consumption of the charger.
- Actual battery life will depend on network configuration, product settings, usage patterns, battery and environmental conditions.
- Make sure that no sharp-edged items such as animal's teeth or nails, come into contact with the battery. This could cause a fire.

DECLARATION OF CONFORMITY

Hereby, LG Electronics declares that this **LG-P990** product is in compliance with the essential requirements and other relevant provisions of Directive **1999/5/EC**. A copy of the Declaration of Conformity can be found at <http://www.lg.com/global/support/cedoc/RetrieveProductCeDOC.jsp>

Ambient temperatures

Max: +55°C (discharging),
+45°C (charging)

Min: -10 °C

Notice: Open Source Software

To obtain the corresponding source code under GPL, LGPL, MPL and other open source licences, please visit <http://opensource.lge.com/>

All referred licence terms, disclaimers and notices are available for download with the source code.

Getting to know your phone


Before you start using the phone, please read this!

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

1. Phone memory

When there is less than 2MB of space available in your phone memory, your phone cannot receive new messages. You need to check your phone memory and delete some data, such as applications or messages, to make more memory available.

To uninstall applications:

- 1 Touch  > **System settings** > **Apps** from the DEVICE category.
- 2 Once all applications appear, scroll to and select the application you want to uninstall.
- 3 Touch **Uninstall**.


2. Optimising battery life

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

Extending your phone's battery life:


- Turn off radio communications you are not using. If you are not using Wi-Fi, Bluetooth or GPS, turn them off.
- Reduce screen brightness and set a shorter screen timeout.
- Turn off automatic syncing for Google Mail™, Calendar, Contacts and other applications.
- Some applications you have downloaded may reduce battery power.

To check the battery power level:

- Touch  > **System settings** > **About phone** under SYSTEM > **Battery**

The battery status (charging or not charging) and level (percentage charged) are displayed.

To monitor and control how battery power is being used:

- Touch  > **System settings** > **Power Saver** from the DEVICE > **Battery use** category under BATTERY INFORMATION.

Battery usage time is displayed on the screen. It tells you how long it has been since you last connected your phone to a power source or, if currently connected, how long the phone was last running on battery power. The screen shows the applications or services using battery power, listed in order from the greatest to smallest amount used.

3. Using folders

You can combine several app icons in a folder. Drop one app icon over another on a Home screen, and the two icons will be combined.

NOTE: After you open an app, you can usually adjust its settings by choosing items from its Menu icon near the top or bottom of the screen.

4. Before installing an open source application and OS

WARNING

If you install and use an OS other than the one provided by the manufacturer, it may cause your phone to malfunction. In addition, your phone will no longer be covered by the warranty.

WARNING

To protect your phone and personal data, only download applications from trusted sources, such as Google Play. If there are improperly installed applications on your phone, it may not work normally or a serious error may occur. You must uninstall those applications and all associated data and settings from the phone.

5. Using hard reset

If it does not restore to the original condition, use Hard Reset (Factory Reset) to initialise your phone.

When the phone is turned off, press and hold the Power + Volume down keys at the same time (for over ten seconds), the phone will turn on and perform factory reset immediately.

Please note, after you perform Hard Reset, all your data and applications on your phone will be erased. This cannot be reversed.

WARNING

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

Getting to know your phone


6. Opening and switching applications

Multitasking is easy with Android because you can keep more than one application running at the same time. There's no need to quit an application before opening another. Use and switch between several open applications. Android manages each application, stopping and starting them as needed to ensure that idle applications don't consume resources unnecessarily.

To view the list of recently used applications:

Simply press and hold the **Home** key.

To stop applications:

- 1 Touch  > **System settings** > **Apps from the DEVICE > RUNNING** tab.
- 2 Scroll and touch the desired application and touch **Stop** to stop it.

7. Installing PC software (LG PC Suite)

The LG PC Suite is a software package that helps you connect your device to a PC via a USB cable and Wi-Fi. Once connected, you can use the functions of your device from your PC.

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

- Manage and play your media content (music, movies, pictures) on your PC.
- Send multimedia content to your device.
- Synchronise data (schedules, contacts, bookmarks) between your device and PC.
- Backup the applications in your device.
- Update the software in your device.
- Backup and restore the device.
- Play multimedia content from your PC on your device.

NOTE: You can use the application's Help menu to find out how to use your LG PC Suite software.

Installing the LG PC Suite software

The LG PC Suite software can be downloaded from the LG webpage.

- 1 Go to www.lg.com and select a country of your choice.

- 2 Go to **Support > Mobile Phone Support**
> Select the Model (LG-P990).
- 3 Click **PC Sync** from **Download**, and click **WINDOW PC Sync Download** to download the **LG PC Suite** software.

System Requirements for the LG PC Suite software

- OS: Windows XP 32 bit (Service Pack 2), Windows Vista 32 bit/64 bit, Windows 7 32 bit/64 bit
- CPU: 1 GHz (or faster) processors
- Memory: 512 MB (or more) RAM
- Graphic card: 1024 x 768 resolution, 32-bit colour (or higher)
- HDD: 100 MB (or more) free hard disk space (more free hard disk space may be needed depending on the volume of data stored)
- Required software: LG integrated drivers

NOTE: LG integrated USB driver

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

8. Synchronising your phone to a computer

Data from your device and PC can be synchronised easily using the LG PC Suite software. Contacts, schedules, and bookmarks can be synchronised.


The procedure is as follows:


- 1 Connect your device to your PC (use a USB cable or Wi-Fi connection).
- 2 After connection, run the program and select the device section from the category on the left side of the screen.
- 3 Click [Personal information] to select it.
- 4 Tick the checkboxes of the content you want to synchronise, and click the **Sync** button.

9. Synchronising your phone to a computer via USB


NOTE: To synchronise your phone with your PC using the USB cable, you need to install LG PC Suite on your PC. Please refer to previous pages to install LG PC Suite.

Getting to know your phone

- 1 Touch  > **System settings** > **Storage** from the DEVICE tab to check out the storage media. (If you want to transfer files to or from a memory card, insert a memory card into the phone.)
- 2 Connect the phone to your PC using the USB cable.
- 3 The USB connection mode list will appear; select the **Media sync (MTP)** option.
- 4 Open the removable memory folder on your PC. You can view the mass storage content on your PC and transfer the files.
- 5 Copy the files from your PC to the drive folder.
- 6 Select the charge only option to disconnect the phone.

TIP! To use the microSD card on your phone again, you need to open the notification drawer and touch  > **Charge only**.

To disconnect your phone from the computer:

Open the notification drawer and touch  > **Charge only** to disconnect your phone from the computer safely.

10. Hold your phone upright

Hold your mobile phone vertically, as you would a regular phone. The LG-P990 has an internal antenna. Be careful not to scratch or damage the back of the phone, as this may affect performance.

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

11. When the screen freezes

If the screen freezes or the phone does not respond when you try to operate it:

Remove the battery, reinsert it, then turn the phone on.

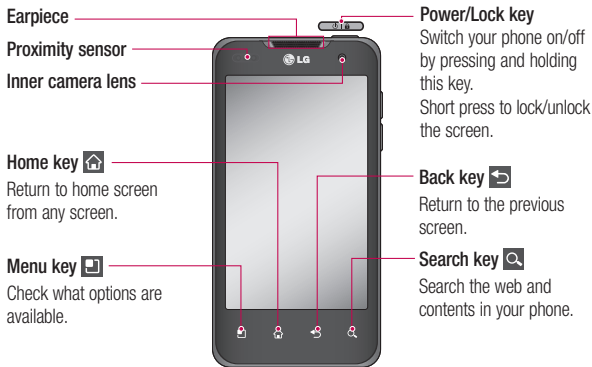
OR

Press and hold the **Power/Lock** key for 10 seconds to turn it off.

If it still does not work, please contact the service centre.

Device components

To turn on the phone, press and hold the **Power** key. To turn off the phone, press and hold the **Power** key for three seconds and touch **Power off**.



NOTE: Proximity sensor

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

WARNING

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

Getting to know your phone

Stereo earphone connector



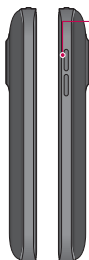
HDMI cable connector

Power/Lock key

Microphone Speaker



Charger, micro USB cable connector



Volume keys

On the home screen:
control ringer volume.

- During a call: control your In-Call volume.
- When playing a track: controls volume.



Camera lens

Flash

microSD Card slot

SIM card slot

Internal antenna

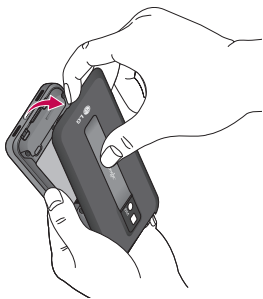
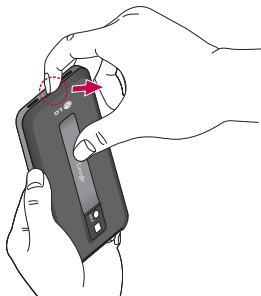
Back cover

Battery

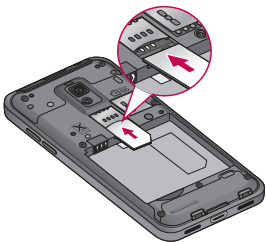
Installing the SIM card and battery

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

- 1 To remove the back cover, hold the phone firmly in your hand. With your other hand, firmly press your thumb on the back cover. Lift off the battery cover with your forefinger.

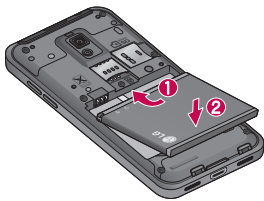


- 2 Slide the SIM card into the SIM card holder. Make sure the gold contact area on the card is facing downwards.

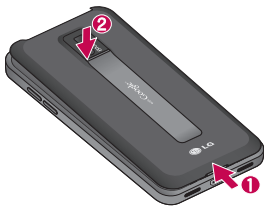


Getting to know your phone


- 3 Insert the battery into place by aligning the gold contacts on the phone and the battery.



- 4 Replace the back cover of the phone.



Charging your phone

Insert the charger and plug it into an electrical socket. Your LG-P990 must be charged until you can see .



NOTE: The battery must be fully charged initially to extend battery lifetime.

Notice!

Use only LG approved battery, charger (1A) and data cable (1A) specific to your phone model since they are designed to maximise battery life. Using other chargers and data cables will not guarantee full battery charge and normal charging time.

Installing the memory card

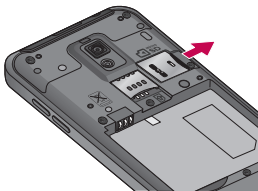
NOTE: The LG-P990 supports up to a 32 GB memory card.

To insert a memory card:

Slide the memory card into the slot until it clicks into place. Make sure the gold contact area on the card is facing downwards.

Removing a memory card

Carefully remove the memory card by gently pushing it in to the phone and quickly releasing it.




WARNING

Do not insert or remove the memory card when the phone is on. Otherwise, you may damage the memory card as well as your phone and the data stored on the memory card may be corrupted. To remove the memory card safely, please select **Apps > Settings > Storage > Unmount SD card**.

Formatting the memory card

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

NOTE: All files on your memory card are deleted when you format it.

- 1 On the home screen, touch the Applications tab  to open the applications menu.
- 2 Scroll and touch **Settings**.
- 3 Scroll and touch **Storage** from the DEVICE category.
- 4 Touch **Unmount SD card**.
- 5 Touch **Erase SD card**, then confirm your choice.


Getting to know your phone

- 6 If you set the pattern lock, input the pattern lock and select **Erase Everything**. The card will then be formatted and ready to use.


NOTE: If there is content on your memory card, the folder structure may be different after formatting, as all the files will have been deleted.

Locking and unlocking the screen

If you do not use the phone for a while, the screen is turned off and locked automatically. This helps to prevent accidental touches and saves battery power.

When you are not using the LG-P990, press the **Power/Lock key**  to lock your phone.

If there are any programs running when you set lock screen, they may be still running in Lock mode. It is recommended that you exit all programs before entering Lock mode to avoid unnecessary charges (e.g. phone calls, web access and data communications).


To wake up your phone, press the **Power/Lock key** . The lock screen will appear. Touch and slide the lock screen in any direction to unlock your home screen. The last screen you viewed will open.

Secure your lock screen


You can lock the touch screen by activating the screen lock feature. Your phone will require the unlock code each time you turn on the phone or unlock the touch screen.

- LG is not responsible for any loss of security codes or private information or other damage caused by illegal software.


Set a swipe unlock

- 1 On the Home screen, touch  to open the application list and select **Settings** > **Lock screen** > **Select screen lock** > **Swipe**.
- 2 Swipe the screen to unlock the screen.


Set an unlock pattern

- 1 On the Home screen, touch  to open the application list and select **Settings** > **Lock screen** > **Select screen lock** > **Pattern**.
- 2 See the on-screen instructions and example patterns and select **Next**.
- 3 Draw a pattern by dragging your finger to connect at least 4 dots.
- 4 Select **Continue**.
- 5 Draw a pattern again to confirm.
- 6 Select **Confirm**.

Set an unlock PIN code

- 1 On the Home screen, touch  to open the application list and select **Settings** > **Lock screen** > **Select screen lock** > **PIN**.
- 2 Enter a new PIN (numeric) and select **Continue**.
- 3 Enter the PIN again and select **OK**.

Set an unlock password

- 1 On the Home screen, touch  to open the application list and select **Settings** > **Lock screen** > **Select screen lock** > **Password**.
- 2 Enter a new password (alphanumeric) and select **Continue**.
- 3 Enter the password again and select **OK**.

NOTE:

Precautions to take when using pattern lock.

It is very important to remember the unlock pattern you set. You will not be able to access your phone if you use an incorrect pattern five times. You have five chances to enter your unlock pattern, PIN or password. If you have used all 5 opportunities, you can try again after 30 seconds.

When you cannot recall your unlock pattern:

If you logged in to your Google account on the phone but failed to enter the correct pattern 5 times, tap the **Forgot pattern** button (or, if you preset the backup PIN, you can use the backup PIN code to unlock the pattern). You are then required to log in with your Google account to unlock your phone.

If you have not created a Google account on the phone or you forgot it, you have to perform a hard reset.

If you have forgotten your PIN or password: If you have forgotten your PIN or password, you need to perform a hard reset.

Your Home screen

Touch screen tips

Here are some tips on how to navigate around your phone.

Touch – To choose a menu/option or open an application, touch it.

Touch and hold – To open an options menu or grab an object you want to move, touch and hold it.

Drag – To scroll through a list or move slowly, drag across the touch screen.

Flick – To scroll through a list or move quickly, flick across the touch screen (drag quickly and release).

NOTE:

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

Home screen

Simply swipe your finger to the left or right to view the panels. You can customise each panel with **Apps**, **Downloads**, **Widgets** and **Wallpapers**.

NOTE: Some screen images may vary depending on your phone provider.

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

 Touch the **Phone** icon to bring up the touch screen dialpad to make a call.


 Touch the **Messaging** icon to access the messaging menu. This is where you can create a new message.

 Touch the **Contacts** icon to open your contacts.

 Touch the **Apps** icon at the bottom of the screen. You can then view all your installed applications. To open any application, simply touch the icon in the applications list.


Customising the Home screen

You can customise your Home screen by adding apps, downloads, widgets or wallpapers. For more convenience using your phone, add your favourite Application Shortcuts to the Home screen.

- 1 Touch  > Add to home screen or
Touch and hold the empty part of the Home screen go to the Edit mode screen.

- 2 The multiple panels of the Home screen and items in Apps, Downloads, Widgets or Wallpapers will be displayed on the Edit mode screen.
- 3 Scroll left or right to the panel that contains the item, and then tap and hold an item you want to move and drag the item to the desired location or panel.

To remove an item from the Home screen:

- **Home screen** > touch and hold the icon you want to remove > drag it to .

TIP! To add an application icon to the Home screen from the Applications menu, touch and hold the application you want to add.

Add or remove panels to the Home screen

You can add or remove panels of the Home screen to organise widgets according to your preferences and needs.

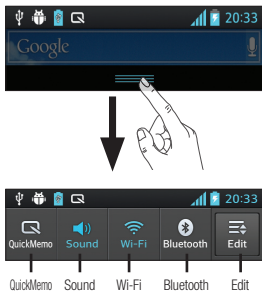
- 1 Place two fingers on the screen and pinch to switch to Edit mode. Then you can add, remove or change the order of the panels.

Returning to recently-used applications

- 1 Touch and hold the **Home** key. The screen displays a pop-up with icons of applications you used recently.
- 2 Touch an icon to open the application. Or touch the **Back** key to return to your current application.

Notification drawer

The notification drawer runs across the top of your screen.




Your Home screen

To customise the notification panel

You can customise the notification panel to match your preferences.

To rearrange items on the notification panel



Touch . Then, you can check and rearrange items on the notification panel.

To view further notification settings

Touch  > .

You can add and remove the items on the notification panel like Sound profile, Wi-Fi, Bluetooth, Airplane mode, and so on.

Touch and slide the notification drawer down with your finger.















Touch  >  to manage the Notifications. Here you can check and manage Sound profile, Wi-Fi, Bluetooth, Airplane mode, Accounts & sync, Auto-rotate screen, Brightness, Data enabled, GPS, Portable Wi-Fi Hotspot, and so on.

Viewing the status bar

The status bar uses different icons to display phone information such as signal strength, new messages, battery life, and active Bluetooth and data connections.



Below is a table explaining the meaning of icons you're likely to see in the status bar.

Icon	Description
	No SIM card
	No signal
	Airplane mode
	Connected to a Wi-Fi network
	Wired headset
	Call in progress
	Missed call
	Connected to a Bluetooth device
	System warning
	Alarm is set
	New voicemail
	Ringer is silenced
	Vibrate mode
	Battery fully charged

Icon	Description
	Quickmemo
	Battery is charging
	Phone is connected to PC via USB cable
	Downloading data
	Uploading data
	GPS on
	more notifications not displayed
	Data is syncing
	Download completed
	New email
	New Google Talk message
	New message
	FM radio turned on in the background
	USB tethering is active
	Portable Wi-Fi hotspot is active
	Both USB tethering and portable hotspot are active
	On-Screen Phone is connected


NOTE: Icons shown on the display may vary depending on your region or service provider.


Onscreen keyboard

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

Your Home screen

Using the keypad & entering text

 Tap once to capitalise the next letter you type. Double-tap or touch and hold for all caps.

 Tap to switch to the numbers and symbols keyboard. You can also touch and hold this tab to view the Settings menu.

 Tap to enter a space.

 Tap to create a new line in the message field.

 Tap to delete the previous character.

Entering accented letters

When you select French or Spanish as the text entry language, you can enter special French or Spanish characters (e.g. 'á').

For example, to input 'á', touch and hold the 'a' key until the zoom-in key grows bigger and displays characters from different languages. Then select the special character you want.

Google account set up

When you first turn on your phone, you have the opportunity to activate the network, to sign into your Google Account and how you want to use some Google services.

To set up your Google account:

- Sign into a Google Account from the prompted set up screen.

OR

- Touch  > **Apps** tab > select a Google application, such as **Gmail** > select **New** to create a new account.

If you have a Google account, touch **Existing**, enter your email address and password, then touch **Sign in**.

Once you have set up your Google account on your phone, your phone automatically synchronises with your Google account on the web.

Your contacts, Gmail messages, Calendar events and other information from these applications and services on the web are synchronised with your phone. (This depends on your synchronisation settings.) After signing in, you can use Gmail™ and take advantage of Google services on your phone.

IMPORTANT

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

Connecting to Networks and Devices

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.

NOTE: If you are out of the Wi-Fi zone or have set Wi-Fi to **OFF**, additional charges may be applied by your mobile operator for mobile data use.

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

- 1 Touch  > **System settings** > **Wi-Fi** from the WIRELESS & NETWORKS tab.
- 2 Set **Wi-Fi** to **ON** to turn it on and start scanning for available Wi-Fi networks.
- 3 Tap the Wi-Fi menu again to see a list of active and in-range Wi-Fi networks.
 - Secured networks are indicated by a lock icon.

- 4 Touch a network to connect to it.
 - If the network is open, you are asked to confirm that you want to connect to that network by touching **Connect**.
 - If the network is secured, you are prompted to enter a password or other credentials. (Ask your network administrator for details)
- 5 The status bar displays icons that indicate Wi-Fi status.

Bluetooth

You can use Bluetooth to send data by running a corresponding application, not from the Bluetooth menu as on most other mobile phones.

NOTE:

- LG is not responsible for the loss, interception or misuse of data sent or received via the Bluetooth wireless feature.
- Always ensure that you share and receive data with devices that are trusted and properly secured. If there are obstacles between the devices, the operating distance may be reduced.

- Some devices, especially those that are not tested or approved by Bluetooth SIG, may be incompatible with your device.

Turning on Bluetooth and pairing up your phone with a Bluetooth device

You must pair up your device with another device before you connect to it.

- 1 Touch  > **System settings** > **Set Bluetooth** to **ON** from the WIRELESS & NETWORKS tab.
- 2 Tap the Bluetooth menu again. Tap the "Search for devices" Button for scan devices. Your phone will display the IDs of all available Bluetooth devices that are in range. If the device you want to pair with isn't on the list, make sure the target device is set to be discoverable, then tap Search for devices again.
- 3 Choose the device you want to pair up with from the list.

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

NOTE: Some devices, especially headsets or hands-free car kits, may have a fixed Bluetooth PIN, such as 0000. If the other device has a PIN, you must enter it.

Send data using the Bluetooth wireless feature


- 1 Select a file or item, such as a contact, calendar event, or media file, from an appropriate application or **Downloads**.
- 2 Select an option for sending data via Bluetooth.

NOTE: The method for selecting an option may vary by data type.

- 3 Search for and pair with a Bluetooth-enabled device.

Receive data using the Bluetooth wireless feature

- 1 Touch  > **System settings** > **Bluetooth** > **Set Bluetooth** to **ON** and touch **Make phone visible** to be visible on other devices.

NOTE: To select the length of time that your device will be visible, touch  > **Visibility timeout**.

- 2 Select **Pair** to confirm that you are willing to receive data from the device.

Sharing your phone's data connection

USB tethering and portable Wi-Fi hotspot are great features when there are no wireless connections available. You can share your phone's mobile data connection with a single computer via a USB cable (USB tethering). You can also share your phone's data connection with more than one device at a time by turning your phone into a portable Wi-Fi hotspot.

When your phone is sharing its data connection, an icon appears in the status bar and as an ongoing notification in the notifications drawer.

For the latest information about tethering and portable hotspots, including supported operating systems and other details, visit <http://www.android.com/tether>.


To change Portable Wi-Fi hotspot settings:

- Touch  > **System settings** > **More** from the WIRELESS & NETWORKS tab > **Portable Wi-Fi hotspot** > Choose options that you want to adjust.

TIP! If your computer is running Windows 7 or a recent distribution of some flavours of Linux (such as Ubuntu), you don't usually need to prepare your computer for tethering. But if you're running an earlier version of Windows or another operating system, you may need to prepare your computer to establish a network connection via USB. For the most current information about which operating systems support USB tethering and how to configure them, visit <http://www.android.com/tether>.

To rename or secure your portable hotspot

You can change the name of your phone's Wi-Fi network name (SSID) and secure its Wi-Fi network.

- 1 On the Home screen, touch  > **System settings**.
- 2 Touch **More** from the WIRELESS & NETWORKS tab and select **Portable Wi-Fi hotspot**.
- 3 Ensure **Portable Wi-Fi hotspot** is ticked.

4 Touch **Configure Wi-Fi hotspot**.

- The **Configure Wi-Fi hotspot** dialogue box will open.
- You can change the network SSID (name) that other computers see when scanning for Wi-Fi networks.
- You can also touch the **Security** menu to configure the network with Wi-Fi Protected Access 2 (WPA2) security using a pre-shared key (PSK).
- If you touch the **WPA2 PSK** security option, a password field is added to the **Configure Wi-Fi hotspot** dialogue box. If you enter a password, you will need to enter that password when you connect to the phone's hotspot with a computer or other device. You can set **Open** in the **Security** menu to remove security from your Wi-Fi network.




5 Touch **Save**.

ATTENTION!

If you set the security option as Open, you cannot prevent unauthorised usage of online services by other people and additional charges can be incurred. To avoid unauthorised usage, you are advised to keep the security option active.

Using SmartShare

Using your phone, you can allow media content files on the network to be shared with other players.

- 1 Touch **App Key**  and then select SmartShare .
 - Your device should be connected to a Wi-Fi network. If not, a new window appears for Wi-Fi connection.
- 2 From: Set a library to view a content list.
 - If there is a previously connected device, the device's content list of is displayed.
- 3 To: Set a player to play the content files.
 - You can only play the files on the supported devices, such as DLNA-enabled TVs and PCs.
 - Touch  to search for available devices again.
- 4 Select a content file you want to play from the content list.
 - Touch and hold a content file to play it or to view its details.
 - Touch the menu button to play, upload/download, set it or view Help.
- 5 Upload/download content files to/from the content list.
 - You can upload the content files saved on your phone to other devices.

Connecting to Networks and Devices

- You can download the content files saved in an external library to your phone.
 - Download/upload progress can be viewed on the notification bar.
 - The uploaded or downloaded content files are saved in the **SmartShare** folder.
- 6 Enable **DMS** in the **Settings** menu.
- **Discoverable:** Detects your phone among other DLNA-enabled devices.
 - **Device name:** Sets the name and icon displayed on other devices.
 - **Always accept request:** Automatically accepts requests from other devices to share content files.
 - **Receive files:** Allows other devices to upload files to your phone.

NOTE:

- **DMS (Digital Media Server)** allows you to share content files on your phone with other devices connected to the same network. With the **DMC (Digital Media Controller)** function you can view and control (playback/stop) content files on other digital devices. You can also play content files saved on other devices on your phone using the **DMP (Digital Media Player)**.
- You can only play content files in the formats supported by the **DMR**. It may not be possible to play some content files, depending on the **DMR**.
- The upload or download function may not be supported, depending on the **DMS**.

PC connections with a PC data cable

Learn to connect your device to a PC with a PC data cable in USB connection modes. By connecting the device to a PC you can transfer data to and from your device directly and use the PC software (LG PC Suite).

Sync your phone with your computer

To synchronise your phone with your PC using the USB cable, you need to install the PC software (LG PC Suite) on your PC. Download the program from the LG website (www.lg.com).

- 1 Use the USB data cable to connect your phone to the PC. The USB connection type list will appear; select LG software.
- 2 Run the LG PC Suite program on your PC. Refer to the PC software (LG PC Suite) help for more information.

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

Transferring music, photos and videos using USB mass storage mode

- 1 Connect the LG-P990 to a PC using a USB cable.
- 2 If you haven't installed LG Android Platform Driver on your PC, you need to change the settings manually. Choose **System settings > PC connection > USB Connection type**, then select **Media sync (MTP)**.
- 3 You can view the mass storage content on your PC and transfer the files.

NOTE: If you installed LG Android Platform Driver, you will immediately see a pop-up saying **Turn on USB storage**.

Synchronise with Windows Media Player

Ensure that Windows Media Player is installed on your PC.

- 1 Use the USB cable to connect the phone to a PC on which Windows Media Player is installed.
- 2 Select the **Media sync (MTP)** option. When connected, a popup window will appear on the PC.
- 3 Open Windows Media Player to synchronise music files.

Connecting to Networks and Devices

- 4 Edit or enter your device's name in the popup window (if necessary).
- 5 Select and drag the music files you want to the sync list.
- 6 Start synchronisation.
 - The following requirements must be satisfied to synchronise with Windows Media Player.




Items	Requirement
OS	Microsoft Windows XP SP2, Vista or higher
Window Media Player version	Windows Media Player 10 or higher

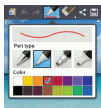
- If the Windows Media Player version is lower than 10, install version 10 or higher.

QuickMemo

Use **QuickMemo** to practically and efficiently create memos during a call, with a saved picture or on the current phone screen.










- 1 Enter the **QuickMemo** screen by pressing both the Volume Up and Volume Down Keys for one second on the screen you want to capture. Or touch and slide the Status Bar downwards and touch .
- 2 Select the desired menu option from **Pen type**, **Color**, **Eraser**, and create a memo.
- 3 Touch  in the Edit menu and select  to save the memo with the current screen.



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

Using the QuickMemo options

While using the QuickMemo function, you can easily use the QuickMenu options.





-  - Select whether you want to use memo background screen or not.
-  - Select the pen type and the colour.
-  - Erase the memo that you created.
-  - Save the memo with the current screen.
-  - Send or share the current QuickMemo to/with others.
-  - Tap to undo the most recent action.
-  - Tap to redo the most recently deleted action.


Viewing the saved QuickMemo

Touch **Gallery** and select the QuickMemo album.

Calls

Making a call

- 1 Touch  to open the keypad.
- 2 Enter the number using the keypad. To delete a digit, touch the .
- 3 Touch  to make a call.
- 4 To end a call, touch the **End** icon .

TIP! To enter '+' to make international calls, touch and hold .

Making a video call

- 1 Touch  to open the keypad.
- 2 Enter the phone number as before.
- 3 Touch the **Video call** icon  to make a video call.
- 4 If you do not want to use the speaker phone, touch **Speaker** and ensure you have the headset plugged in.
- 5 While the video call is connecting, you will see your own image, after the other party has answered, their image will be displayed on the screen. Adjust the inner camera position if necessary.
- 6 To end a video call, touch **End**.

Video call image: You can change the image instead of showing the current private image.

Dialpad: Type in a number.

Mute: Mute the sound.


Speaker: Speaker on or off.

In Video call Menu


Capture – You can capture an image of the other.

Use secondary camera – Switch the camera.

Calling your contacts

- 1 Touch  to open your contacts.
- 2 Scroll through the contact list or enter the first few letters of the contact you want to call by touching **Search contacts**.
- 3 In the list, touch the contact you want to call.

Answering and rejecting a call

When you receive a call in Lock state, hold and slide the  to answer the incoming call.

Hold and slide the  to decline an incoming call.

Hold and slide the **Quick msg** icon at the bottom if you want to send a quick message.






TIP! Quick msg

You can send a message quickly using this function. This is useful if you need to reject a call with message during a meeting.

Adjusting call volume

To adjust the in-call volume during a call, use the volume up and down keys on the right-hand side of the phone.

Making a second call

- 1 During your first call, touch **Menu** > **Add call** and dial the number. You can also see a list of recently dialed numbers by touching , or you can search your contacts by touching  and select the number you want to call.
- 2 Touch  to make the call.
- 3 Both calls are displayed on the call screen. Your initial call is locked and put on hold.
- 4 Touch the displayed number to toggle between calls. Or touch  **Merge call** to make a conference call.
- 5 To end active calls, touch **End** or touch the **Home Key** and slide the notification bar down and select the **End call** icon .

NOTE: You are charged for each call you make.

Viewing your call logs

On the Home screen, touch  and choose the **Call logs** tab .

View a complete list of all dialed, received and missed voice calls.

TIP! Touch any call log entry to view the date, time and duration of the call.


TIP! Touch the **Menu** key, and then touch **Delete all** to delete all the recorded items.

Contacts



Add contacts to your phone and synchronise them with the contacts in your Google account or other accounts that support contact syncing.

Searching for a contact

In the Home screen

- 1 Touch  to open your contacts.
- 2 Touch **Search contacts** and enter the contact name using the keyboard.

Adding a new contact

- 1 Touch  to open your contacts.
- 2 Select .
- 3 Select a memory location. If you have more than one account, select an account to which you want to add the contact, such as **Phone** or **Google**.
- 4 Touch a contact information category and enter your contact's details.
- 5 Touch **Save** to add the contact to memory.

You can also create a contact from the dialling screen.


- 1 Touch  >  to open the dial screen.
- 2 Enter a phone number.
- 3 Select **Add to Contacts** > **Create new contact**.

- 4 Select a memory location. If you have more than one account, select an account to which you want to add the contact, such as **Phone** or **Google**.
- 5 Enter the contact information.
- 6 Touch a contact information category and enter your contact's details.
- 7 Touch **Save** to add the contact to memory.


Favourite contacts

You can classify frequently called contacts as favourites.

Adding a contact to your favourites

- 1 Touch  to open your contacts.
- 2 Touch a contact to view their details.
- 3 Touch the star to the right of the contact's name. The star turns yellow color.

Removing a contact from your favourites list

- 1 Touch  to open your contacts.
- 2 Touch the **Favourites** tab, and choose a contact to view its details.
- 3 Touch the yellow star to the right of the contact's name. The star will turn grey and the contact will be removed from favourites.

Import or export contacts

To import/export contact files (in vcf format) between a storage memory (internal storage/ memory card) or SIM or USIM card and your device.

- 1 Touch  to open your contacts.
- 2 Touch the **Menu** key > **Import/Export**.
- 3 Select a desired import/export option. If you have more than one account, select an account to which you want to add the contact.
- 4 Select contact files to import/export and select **Import** to confirm.

Moving contacts from your old device to your new device

Export your contacts as a CSV file from your old phone to your PC, using a PC sync programme.



- 1 First install LG PC Suite on the PC. Run the programme, and connect your Android mobile phone to the PC using a USB cable.
- 2 From the top of the screen, select **Device** > **Import personal information** > **Import contacts**.
- 3 A pop-up to open a contacts file will appear.

- 4 Select a contacts file and click **Open**.
- 5 A pop-up to import a new contact from the PC to the contacts in the device will appear.
- 6 If the contacts in the device and new contacts from the PC are different, select a contact you want to import from the PC.
- 7 Click the [OK] button to import a new contact from the PC to the device.

Messaging

Your LG-P990 combines SMS and MMS into one intuitive, easy-to-use menu.


Sending a message

- 1 Touch  on the home screen, and touch  to open a blank message.
- 2 Enter a contact name or contact number in the **To** field. As you enter the contact name, matching contacts will appear. You can touch a suggested recipient. You can add multiple contacts.

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

- 3 Touch the **Enter message** field and start to compose your message.
- 4 Touch the **Menu** key to open the Options menu. Choose from **Add subject**, **Discard**, **Attach**, **Insert smiley** or **All messages**.
- 5 Touch **Send** to send your message.
- 6 The message screen opens, with your message after Recipient Name/Number. Responses will appear on the screen. As you view and send additional messages, a message thread will be created.

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

 **WARNING:** The 160-character limit may vary from country to country depending on the language and how the SMS is coded.

 **WARNING:** If an image, video or audio file is added to an SMS message, it is automatically converted into an MMS message and you are charged accordingly.

Threaded box

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

Using emoticons

Liven up your messages using emoticons. When writing a new message, touch the **Menu** key, then choose **Insert smiley**.

Changing your message settings

Your LG-P990 message settings are predefined, so you can send messages immediately. You can change the settings based on your preferences.

Touch  on the home screen, and touch the **Menu** key, then tap **Settings**.


You can use the Email application to read emails from services other than Google Mail. The email application supports the following account types: POP3, IMAP and Exchange.

Your service provider or system administrator can provide the account settings you need.

Managing an email account

The first time you open the **E-mail** application, a setup wizard opens to help you to set up an email account.

To add another email account:


- Touch  > **Apps** tab > **E-mail** > in the account screen, touch  > **ADD ACCOUNT**

After the initial setup, Email displays the contents of your inbox. If you have added more than one account, you can switch among accounts.

To change the settings of an email account:


- Touch  > **Apps** tab > **E-mail** > in the account screen, touch  > **Settings**

To delete an email account:

- Touch  > **Apps** tab > **E-mail** > in the account screen, touch  > **Settings** > touch an account you want to delete > **Delete account.**

Email account screen

You can touch an account to view its Inbox. The account from which you send email by default is indicated with a tick.

 – Touch the folder icon to open the account folders.


Only the most recent emails in your account are downloaded to your phone.

Working with account folders

Each account has an Inbox, Outbox, Sent and Drafts folder. Depending on the features supported by your account's service provider, you may have additional folders.

Composing and sending email

To compose and send a message

- 1 While in the **E-mail** application, touch the .
- 2 Enter an address for the message's intended recipient. As you enter text, matching addresses are offered from your Contacts. Separate multiple addresses with semicolons.
- 3 Add Cc/Bcc and add attachment files if required.

E-mail

4 Enter the text of the message.

5 Touch the .

If you aren't connected to a network, for example, if you're working in airplane mode, the messages that you send are stored in your Outbox folder until you're connected to a network again. If it contains any pending messages, the Outbox will be displayed on the Accounts screen.

TIP! When a new email arrives in the inbox, you will receive a notification by sound or vibration. Tap the email notification to stop notifications.

Camera

To open the Camera application, tap **Apps Key**  > **Camera** .

Getting to know the viewfinder

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

Cheese shutter – Say Cheese when you get ready to take a photo.

Camera Switch – Allows you to switch between the front-facing and back-facing cameras.



Camera mode – Touch this icon down to switch to video mode.

Capture – Allows you to take a photo.


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

Settings – Tap this icon to open the settings menu. See **Using the advanced settings**.

Shot mode – Choose from **Normal**, **Panorama** or **Continuous shot**.

Camera

Taking a photo

- 1 Open the Camera application.
- 2 Hold the phone, point the lens towards the subject you want to photograph.
- 3 Touch the screen and a focus box will appear in the viewfinder screen.
- 4 When the focus box turns green, the camera has focused on your subject.
- 5 Click on the  to capture the image.

NOTE: A shading issue may occur when you take a picture indoors, due to the characteristics of the camera. (Shading means a colour difference between the centre and sides.)

Once you've taken the photo

Your captured photo will appear on the screen if Auto review is set to On.

Share

Tap to share the picture via various methods such as **Bluetooth, E-mail, Gmail, Memo, Messaging, Picasa**, or any other downloaded applications that is supported.

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

Set as

Tap to use the image as **Contact photo, Home screen wallpaper, Lock screen wallpaper**.



Tap to delete the image.




Tap to take another photo immediately. Your current photo will be saved.



Tap to view the Gallery of your saved photos.

Using the advanced settings

In the viewfinder, tap  to open the advanced options.

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

Flash – Turn Off / On / Auto.

Focus – Tap to select the focus mode.

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

Image size – Tap to set the size (in pixels) of the picture you take. Select a pixel value from the following options: **8M(3264X2448), W6M(3200X1920), 5M(2560X1920), 3M(2048x1536), W3M(2240X1344), 1M(1280X960), W1M(1280X768).**

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

- **Normal** : Automatically adjusts according to the environment.
- **Portrait** : It's good to capture people.

- **Landscape** : It's good to capture natural scenery such as trees, flowers and sky.
- **Sports** : It's good to capture sports scenery.
- **Sunset** : It's good to capture the sunset scenery.
- **Night** : It's good to capture the night scenery. Slow shutter speeds are used to detect night landscape.

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

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



Colour effect – Choose a colour tone for your new photo.

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

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

NOTE: This function is only available when GPS is active.

NOTE: This function uses wireless networks. You need to checkmark Use wireless networks.

From the Home screen, tap the **Menu Key**  > **System settings** > **Location services**. Check Google's location service .

Shutter sound – Select one of the four shutter sounds.

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

Storage – Choose from **SD card, Internal memory**.

Reset – Restore all camera default settings.


Camera help guide – Touch whenever you want to know how some function operates. This provides you with a quick guide.

NOTE:

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

Camera

Viewing your saved photos

You can access your saved photos from within the camera mode. Just tap the Gallery button  and your Gallery will be displayed.

TIP! Flick left or right to view other photos or videos.

Tap a photo to display other options menus.



– Tap to see a Smart Share list of your images (Connecting to other devices show the photos).




– Tap to take a new photo.



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



– Tap to delete the photo.

Menu Key  – Tap to access **Set image as, Move, Rename, Rotate left, Rotate right, Crop, Edit, Slideshow, or Details.**

Video camera

Getting to know the viewfinder

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

Zoom – Zoom in or zoom out.

Camera Switch – Allows you to switch between the front-facing and back-facing cameras.



Camera mode – Touch this icon up to switch to camera mode.

Start recording – Allows you to start recording.




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

Settings – Tap this icon to open the settings menu. See **Using the advanced settings**.

Flash – Allows you turn on the flash when recording video in a dark place.

Video camera

Shooting a quick video

- 1 Open the **Camera** application and slide the camera mode button down to the **Video** position. The capture icon will change to .
- 2 The video camera viewfinder will appear on the screen.
- 3 Holding the phone horizontally, point the lens towards the subject of the video.
- 4 Touch the start video icon .
- 5 A timer showing the length of the video is displayed at the top left corner of the screen.
- 6 Touch the stop video icon  to stop recording.


After shooting a video


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

Play Touch to play the video.

Share Touch to share your video via **Bluetooth, Email, Gmail, Messaging or YouTube**.


NOTE: Additional charges may apply when MMS messages are uploaded and/or downloaded while roaming.

 Touch to delete the video you just made, and confirm by touching **OK**. The viewfinder will reappear.

 Touch to shoot another video straight away. Your current video will be saved.

 Touch to view the last video you recorded.

Using the advanced settings

Using the viewfinder, touch  to open all the advanced options.

Adjust the video camera settings by scrolling the list. After selecting the option, touch the **Back** key.

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

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

Colour effect – Choose a colour tone to use for your new video.

NOTE: Options for Color effect may vary depending on the video mode.

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


Audio recording – Choose off to record a video without sound.

Auto review – If you set this to **On**, it will automatically show you the video you have just recorded.

Storage – Choose from SD card, Internal memory.

Reset – Restore all video camera default settings.

Watching your saved videos

- 1 In the viewfinder, touch .
- 2 Your gallery will appear on the screen.
- 3 Touch a video once to bring it to the front of the gallery. It will start to play automatically.

Adjusting the volume when viewing a video

To adjust the volume of a video while it is playing, use the volume keys on the right side of the phone.

Multimedia

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

Gallery

Tap **Apps Key**  > **Gallery** .


View mode

When you open the Gallery, your photos will be presented in Folder view. Once you open a folder, your photos will be in Grid view. When you tap a photo from Grid view, it will be displayed in Full view.


Calendar View

In Folder view, tap  **Albums** to view **Albums, Locations, Timestamp**.

Gallery menu options

Tap a photo and tap the **Menu Key**  to see the following available options: **Set image as, Move, Rename, Rotate left, Rotate right, Crop, Edit, Slideshow, Details**.

Sending a photo

- 1 To send a photo, touch the photo you want.
- 2 Tap  and choose from **any of the available applications**.

- 3 When you choose **E-mail, Gmail** or **Messaging**, your photo will be attached to a message, which you can then write and send normally.


TIP! If you have a social networking account set up on your phone, you can share your photo with that social networking community.

Sending a video

- 1 To send a video, touch and hold the video you want.
- 2 Tap **Share** and choose from **any of the available applications**.
- 3 When you choose **E-mail, Gmail** or **Messaging** your video will be attached to a message, which you can then write and send normally.

Using an image

Choose images to use as wallpaper or identify callers.

- 1 Touch a photo then tap **Menu Key**  > **Set image as**.
- 2 Choose from **Contact photo, Home screen wallpaper** and **Lock screen wallpaper**.

Viewing a slideshow

To view a slideshow of your photos, open the Gallery and tap a photo. Once the photo is displayed, tap the screen to see the menu.

Menu Key  > **Slideshow** to begin the slideshow of all your photos.


View photo details

You can view a photo's detailed information, such as the name, date, time, size, and type.


While viewing a photo, tap **Menu Key**  > **Details**.

Transferring files using USB Media sync (MTP)

To transfer files using a USB device:

- 1 Connect the phone to a PC using a USB cable.
- 2 You can see USB connection mode popup. (From the Home screen, tap the **Menu Key**  and tap **System settings** > **PC connection** > **USB connection type** > **Media sync (MTP)**).
- 3 Tap **Media sync** to confirm.
- 4 You can view the phone content on your PC and transfer the files.

NOTE:

If you don't want to see USB connection mode popup, uncheck Don't ask again on USB connection mode popup or turn off ask on connection. (**Menu Key**  and tap **System settings** > **PC connection settings** > **Ask on connection**).

Music Player

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

How to save music/video files to the phone

Connect your phone to the PC using the USB cable

You'll receive a notification that the USB is connected and can see USB connection mode popup. Tap Media sync (MTP) to confirm. Then open the folder you wish to view from your computer.

Multimedia

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




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

How to play video files on the phone

Playing video files

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

Playing a song

- 1 From the Home screen, tap **Apps Key**  and tap **Music Player**.
- 2 Tap the **Songs** tab.
- 3 Tap the song you want to play.
- 4 Tap  to pause the song.
- 5 Tap  to skip to the next song.

- 6 Tap  to go back to the beginning of the song. Tap  twice to go back to the previous song.

To change the volume while listening to music, press the up and down Volume Keys on the right side of the phone.



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

Working with Playlists


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

To create a playlist

- 1 When viewing the library long tap any song.
- 2 Tap **Add to playlist**.
- 3 Tap **New playlist**.
- 4 Enter a title for your new playlist and select **OK**.

You can also add the song that is playing in the Playback screen as the first song in a playlist by touching the **Menu Key** , then tapping **Add to playlist** or tap on  and then select **Save as playlist** option from bottom of the screen.

To remove a song from a playlist

- 1 Open a playlist.
- 2 Touch and hold the song you want to remove, then tap **Remove from playlist** or when viewing the currently playing playlist, tap the **Menu Key** , then tap **Remove from playlist** to remove all the songs from the current playlist.

To rename or delete a playlist

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




NOTE:

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

Using SmartShare

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

To turn SmartShare on and allow sharing contents

- 1 Touch the **Apps Key**  > **SmartShare** .
- 2 Touch the **Menu Key**  > **Settings**.
- 3 Touch **Discoverable** to allow your device to be detected by other devices.
 - Touch **Always accept request** if you would like to automatically accept sharing requests from other devices.
 - Touch **Receive files** if you would like to allow the other devices to upload media files to my phone.

NOTE:

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

- 4 Under the My shared contents section, touch to checkmark the types of content you would like to share. Choose from **Photos**, **Videos**, and **Music**.
- 5 **SmartShare** is now activated and ready to share contents.






Multimedia

To control your renderer devices

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

NOTE:




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

- 1 Touch the **Apps Key**  > SmartShare .
- 2 Touch the **To** button  and select the device from the renderer device list.
- 3 Touch the **From** button  and select the device of the remote content library.
- 4 You can browse the content library.
- 5 Touch and hold a content thumbnail and flick them to the top area with your finger or touch the **Menu Key**  > **Play**.

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

NOTE:




Make sure that your renderer device is properly configured.

- 1 While watching your photos or videos using the Gallery application, touch tab // on the Title area.

- 2 Select the device from renderer lists to play the files.

NOTE:

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

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

NOTICE

Check that your device is connected with your home network using Wi-Fi connection to use this application.

Some DLNA enabled devices (e.g. TV) support only the DMP feature of DLNA and will not appear in the renderer device list. Your device might not be able to play some contents.



To download contents from the remote content library

- 1 Touch the **Apps Key**  > SmartShare .
- 2 Touch the **From** button  and select the device of the remote content library.
- 3 You can browse the content library.
- 4 Touch and hold a content thumbnail and then touch **Download**.

NOTE:

A few types of contents are not supported.





To upload contents from the remote content library

- 1 Touch the **Apps Key**  > **SmartShare** .
- 2 Touch the **From** button  and select **My phone**.
- 3 You can browse the local content library.
- 4 Touch and hold a content thumbnail and then touch **Upload**.
- 5 Select the device of the remote content library to be uploaded.




NOTICE

Some DLNA enabled devices do not support the DMS upload functionality and will not upload files. A few types of contents are not supported.

Setting the alarm

- 1 From the Home screen, tap **Apps Key**  and tap **Alarm/Clock** .
- 2 To add a new alarm, tap the  at the bottom left and set the alarm time.
- 3 Set any other desired options and tap **Save**.
- 4 Tap the **Menu Key**  to delete all alarms or adjust the alarm settings.

Using the calculator

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

Adding an event to your calendar




NOTE: You must create a Google account to use Calendar.

- 1 From the Home screen, tap **Apps Key**  and tap **Calendar** .
- 2 To view an event, tap the date. The events occurring on that date are displayed below the Calendar in Month view. Tap

the event to view its details. If you want to add an event, tap  at the top right corner of the Calendar.



- 3 Tap the **Phone** field and enter the event name. Check the date and enter the start and end time you want your event to begin and finish.
- 4 Tap the **Location** field to enter the location.
- 5 To add a note to your event, tap the **Description** field and enter the details.
- 6 To repeat the event, set **Repetition**, and set **Reminders**, if necessary.
- 7 Tap **Save** to save the event in the calendar. A coloured square in the calendar will mark all days that have saved events. An alarm will sound at the event start time if you set it.

Changing your calendar view

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

Downloads

Allows fast access to tabs containing a list of your recent internet and other downloaded files.

- 1 From the Home screen, tap **Apps Key**  → **Downloads** .
- 2 Touch an available file category tab (Internet downloads or Other downloads) then select the needed file. Polaris Office can also open compatible format documents.

FM Radio




Your LG-P990 has a built-in FM Radio so you can tune in to your favourite stations and listen on the go.

NOTE: You need to use your headset to listen to the radio. Insert them into the headset jack.

Polaris Office



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

- 1 From the Home screen, tap **Apps Key**  > **Polaris Office** .

- 2 Register your name and email address on the User Registration page. If you want to skip the registration process, tap **Cancel**.
- 3 Tap **My Files** for folders and documents on your microSD card.
- 4 Tap the **Menu Key**  > **New File** to start a new document.
- 5 Tap a document type.
- 6 Enter contents in the document using the tools at the bottom of the screen and the on-screen keyboard.
- 7 When you're done working on the document, tap the **Menu Key**  > **Save** > **Save** (or **Save as** to enter a new document name) to save.
- 8 Tap the **Back Key**  to exit.

Video Player

The built-in Video Player application plays videos directly from files on your SD card. This application is able to playback DivX videos.





- 1 From the Home screen, tap **Apps Key**  → **Video Player** . A list of sorted videos on the SD card will be shown in the Video list.
- 2 Tap a video file to begin watching.


Utilities

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 Key**  and tap **Voice Recorder**.
- 2 Tap  to begin recording.
- 3 Tap  to pause recording.
- 4 Tap  to end recording.

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

YouTube

YouTube is an online public communications website that allows users to upload and have available for the public their videos for viewing. Users can share videos and view them in MPEG-4 format.

- 1 From the Home screen, tap **Apps Key**  → **YouTube** .
- 2 Tap **Accept** if you accept the Terms and Conditions, or tap **Exit**.
- 3 When the screen loads you can start searching and viewing posted videos.
- 4 Touch  → **Settings** → **General settings** → **High quality on mobile** if you prefer a higher quality output.






The web

Internet

Internet gives you a fast, full-colour world of games, music, news, sport, entertainment and much more, right on your mobile phone. Wherever you are and whatever you enjoy.

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

Using the web toolbar

-  Touch to go back a page.
-  Touch to go forward a 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 goes to the previous page.
-  Touch and hold, up and down to zoom in or out of browser.
-  Touch to add a new window.
-  Touch to open a list of saved bookmarks.

Using options

Touch the **Menu** key to view options.

Refresh – Update the current web page.

Save to bookmarks – Add the current web page as a bookmark.

Go to Homepage – Allows you to go to the homepage.

Share page – Allows you to share the web page with others.

Find on page – Allows you to find letters or words on the current web page.

Request desktop site – Allows you to view the web page on the desktop.

Save for offline reading – Allows you to save current web page and read it on offline later.

Settings – Displays Internet settings.






Exit – Allows you to exit from the browser.

On-Screen Phone

LG SOFTWARE

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

On-Screen Phone 3.0 icons

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

On-Screen Phone features

- **Real-time transfer and control:** displays and controls your mobile phone screen when connected to your PC.
- **Mouse control:** allows you to control your mobile phone by using the mouse to click and drag on your PC screen.
- **Text input with keyboard:** allows you to compose a text message or note using your computer keyboard.
- **File transfer (mobile phone to PC):** sends a file from your mobile phone (e.g. Gallery, Video Player, Music and Polaris Office) to your PC. Simply right-click on the file and drag it to send it to your PC.
- **File transfer (PC to mobile phone):** sends files from your PC to your mobile phone. Just select the files you wish to transfer and drag and drop them into the On-Screen Phone window. The sent files are stored in the OSP folder.
- **LG Home Panorama:** shows all of the work spaces of LG Home. You can easily organize icons or widgets and run an application by double-clicking the shortcut.

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

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

How to install On-Screen Phone on your PC

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

How to connect your mobile phone to your PC

On-Screen Phone 2.0 provides USB, Bluetooth and Wi-Fi connection. Please follow the instruction on Connection Wizard of OSP program.

NOTE: Please make sure that On-Screen Phone check box in **Settings > PC connection > On-Screen Phone > On-Screen Phone** is selected. Please make sure that the battery may run out more quickly due to the current consumption if On-Screen Phone is connected via Wi-Fi.


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

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

To check the phone-to-PC connection

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




To disconnect your phone from your PC

Click  in the top left of the On-Screen Phone window. Alternatively, drag down the Status Bar at the top of the Home screen and select **On-Screen Phone connected > Disconnect On-Screen Phone**. Tap **Disconnect** in the disconnect dialog.

Settings

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

To open the Settings application

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

WIRELESS & NETWORKS

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

< Wi-Fi >

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

< Turn on Wi-Fi >



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

OR

Tap the **Menu Key**  and tap **System settings** > **Wi-Fi**. Then drag  to the right.

To connect to a Wi-Fi Network

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

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


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

NOTE

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

< Bluetooth >




Using Bluetooth

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

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

How to send data from your phone via Bluetooth



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

- * **Sending pictures:** Open the Gallery application and tap a picture. Then tap  > **Bluetooth**. Check if Bluetooth is turned on and tap Search for devices. Then tap the device you want to send data to from the list.
- * **Sending contacts:** Open the Contacts application. Tap the contact you want to share, then tap the **Menu Key**  > **Share > Bluetooth**. Check if Bluetooth is turned on and tap **Search for devices**. Then tap the device you want to send data to from the list.
- * **Sending multi-selected contacts:** Open the Contacts application. To select more than one contact, tap the **Menu Key**  > **Share**. Tap the contacts you want to send or tap **Select all at the top left corner of the screen**. Tap **Attach > Bluetooth**. Check if Bluetooth is turned on and tap **Search for devices**. Then tap the device you want to send data to from the list.
- * **Connecting to FTP (Only the FTP server is supported on this handset):** From the Home screen, tap the **Menu Key**  > **System settings > Bluetooth**. Make sure

Settings

Bluetooth is turned on. Tap **Make phone visible** to make the device visible to other Bluetooth devices. Then search for other devices. Find the service you want and connect to the FTP server.

TIP! The supported Bluetooth version is Bluetooth 3.0 and certified by Bluetooth SIG. It is compatible with other Bluetooth SIG certified devices.

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

Data usage

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

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

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

Call

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

- **Fixed dialling numbers** - Select **Fixed Dialling Numbers** to turn on this feature and compile a list of numbers that can be called from your phone. You'll need your PIN2, which is available from your operator. Only numbers on the fixed dial list can be called from your phone.

VOICE MAIL

- **Voicemail service** - Allows you to select your carrier's voicemail service. You can obtain this number from your service provider.
- **Voicemail settings** - If you are using your carrier's voicemail service, this option allows you to enter the phone number to use for listening to and managing your voicemail.

END CALL SETTINGS

- **Save unknown numbers** - Add unknown numbers to contacts after a call.

OTHER CALL SETTINGS

- **Call reject** - Allows you to set the call reject function. Choose from **Disabled**, **Reject calls on list** or **Reject all calls**.

- **Quick messages** - When you want to reject a call, you can send a quick message using this function. This is useful if you need to reject a call during a meeting.
- **Call forwarding** - Choose whether to divert all calls when the line is busy, when there is no answer or when you have no signal.
- **Call barring** - Select when you would like calls to be barred. Enter the call barring password. Please check with your network operator about this service.
- **Call duration** - View the duration of calls including all calls, dialled calls, received calls and last call.
- **Call costs** - View the charges applied to your calls. (This service is network dependent; some operators do not support this function.)
- **Additional settings** - This lets you change the following settings:
 - **Caller ID** - Choose whether to display your number on an outgoing call.
 - **Call waiting** - If call waiting is activated the handset will notify you of an incoming call while you are on the phone (depending on your network provider).
- **Video call settings** - Change your video call settings.

More...

< Airplane mode >

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

1 From the **Wireless & networks** screen, tap More then turn Airplane mode on in the checkbox. (a blue checkmark will appear).

2 Tap again to turn it off.


OR

1 Press and hold the **Power/Lock Key**  and tap **Airplane**.

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

< Portable Wi-Fi hotspot >

You can also use your phone to provide a mobile broadband connection for up to 8 other devices. Create a hotspot and share your connection.

To create a portable hotspot, from the Home screen tap the **Menu Key**  > **System settings**. From the **WIRELESS & NETWORKS** section, tap **More > Portable Wi-Fi hotspot**. Then tap **Portable Wi-Fi hotspot** once more to activate the feature. A checkmark indicates that the feature is active. Tap **Configure Wi-Fi hotspot to change the SSID, security type, and password**.

NOTE

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

NOTE

- Data Tethering requires an appropriate DataPro data plan. Devices connected by tethering use data from your DataPro plan. Plans are not unlimited and significant charges may be incurred if the included data allowance is exceeded. Performance may vary depending on the number of devices connected and other factors.
- You cannot access your phone's microSD card on your computer when using USB tethering.

Data Tethering

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

To tether your phone with your computer using the USB

- 1 Connect your phone to your computer with a USB cable.
- 2 The USB connection type prompt is displayed. Tap **USB tethering** to confirm.

< Mobile networks >

Set options for data roaming, network mode & operators, access point names (APNs) and so on.

NOTE

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

Device

Sound

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

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

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

< RINGTONE & NOTIFICATIONS >

Phone ringtone - Select the ringtone for incoming calls.

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

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

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

< TOUCH FEEDBACK & SYSTEM >

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

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

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

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

Display

Brightness – Adjust the brightness of the screen.

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

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

Font type – Select the desired font type.

Font size – Select the desired font size.

Aspect ratio correction

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

- **Turn on front key light:** Checkmark this to set the front keys (Menu Key, Home Key, Back Key) are turned on, when you use the device.
- **Front key light duration:** Select how long the front keys remain backlit while the screen is turned on.

Home screen

Theme

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

Settings

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

Wallpaper - Allows you to set the wallpaper.

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

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

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

Lock screen

< SCREEN >

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

None - No lock screen.

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

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

PIN - Enter a numeric PIN to unlock screen.

Password - Enter a password to unlock screen.

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

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

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

< LOCK TIME >

Lock timer - While your phone is at sleep mode, your phone will be locked after the time you set here has elapsed. But, if None is selected at Select screen lock menu, your phone will not be locked.

Power button instantly locks - Regardless of Lock timer setting, your phone will be locked immediately when Power button is pressed. But, if None is selected at Select screen lock menu, your phone will not be locked.

Storage

< INTERNAL STORAGE >

You can monitor the used and available space on the system memory.

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

< SD CARD >

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

Unmount SD card - Tap this to unmount the microSD card from your phone you can safely remove it from your device.

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

Power saver

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

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

POWER SAVING ITEMS - Select to turn off features when battery is low.

Auto-sync - Turn off Auto-sync.

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

Bluetooth - Turn off Bluetooth if not connected.

Vibrate on touch - Turn off touch feedback.

Brightness - Adjust the brightness.

Screen timeout - Adjust screen timeout of screen.

Front key light - Adjust Front key light timeout.


BATTERY INFORMATION - View the amount of power consumed by your device.

Apps

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

PERSONAL

Accounts & sync

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

Settings

Location services

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

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

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

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

Security

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

< SIM CARD LOCK >

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

< PASSWORDS >

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

< PHONE ADMINISTRATION >

Phone administrators - Add or remove device administrators.

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

< CREDENTIAL STORAGE >

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

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

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


Language & input

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

Language - Choose a language to use on your phone.

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

< KEYBOARD & INPUT METHODS >

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

< SPEECH >

Voice Search - Touch to configure the Voice Search settings.

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

< MOUSE/TRACKPAD >

Pointer speed - Adjust the pointer speed.

Backup & reset

< BACKUP & RESTORE >

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

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

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

< PERSONAL DATA >

Factory data reset - Erases all data on the phone.

SYSTEM

Date & Time

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

Accessibility

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

NOTE

Requires additional plug-ins to become selectable.

PC connection

< USB CONNECTION >

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

Settings

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

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

Developer options

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

Development device ID - Displays the development device ID.

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

Allow mock locations - Checkmark to allow mock locations.

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

< USER INTERFACE >

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

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

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

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

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

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

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

Transition animation scale - Select to set transition animation scale.

< APPS >

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

Background process limit - Set the preferred Background process limit.

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

About phone

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

Software update

Phone Software Update

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

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

<http://www.lg.com>

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

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

Specifications



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DivX Mobile



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Go to vod.divx.com for more information on how to complete your registration.

DivX Certified® to play DivX® video up to HD 720p, including premium content.

May play **DIVX**_{HD} video up to 1920x1080.

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Accessories

These accessories are available for use with the LG-P990. (Items described below may be optional.)

Charger



Battery



Data cable

Connect your LG-P990 to a PC.



User Guide

Learn more about your LG-P990.



Stereo headset



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 while using your phone. Some problems require you to call your service provider, but most are easy to fix yourself.

Message	Possible causes	Possible corrective measures
SIM error	There is no SIM card in the phone, or it is inserted incorrectly.	Make sure the SIM card is correctly inserted.
No network connection / Losing network	Signal is weak or you're outside the carrier network. Operator applied new services.	Move towards a window or into an open area. Check the network operator coverage map. Check whether the SIM card is more than 6–12 months old. If so, change your SIM at your network provider's nearest branch. Contact your service provider.
Codes do not match	To change a security code, you will need to confirm the new code by re-entering it. The two codes you have entered do not match.	If you forget the code, contact your service provider.
An application cannot be set	Not supported by service provider or registration required.	Contact your service provider.
Calls not available	Dialling error New SIM card inserted. Pre-paid charge limit reached.	New network not authorised. Check for new restrictions. Contact service provider or reset limit with PIN2.
Phone cannot be switched on	On/Off key pressed too briefly. Battery is not charged. Battery contacts are dirty.	Hold the On/Off key down for at least two seconds. Charge battery. Check charging indicator on the display. Clean the battery contacts.


Message	Possible causes	Possible corrective measures
Charging error	Battery is not charged.	Charge battery.
	Outside temperature is too hot or cold.	Make sure the phone is charging at a normal temperature.
	Contact problem	Check the charger and connection to the phone. Check the battery contacts, and clean them if necessary.
	No voltage	Plug the charger into a different socket.
	Charger defective	Replace charger.
	Wrong charger	Only use original LG accessories.
	Battery defective	Replace battery.
Number not permitted	The Fixed dialling number function is on.	Check the Settings menu and turn the function off.
Impossible to send/receive SMS & picture	Memory full	Delete some messages from the phone.
Files not opening	Unsupported file format	Check the file formats that can be supported.
SD card not working	FAT16, FAT32 file system supported	Check SD card file system via card reader, or format SD card using the phone.
The screen does not come on when I receive a call.	Proximity sensor problem	If you use any protection tape or case, check to see if it has covered the area around the proximity sensor. Make sure the area around the proximity sensor is clean.
No sound	Vibration mode	Check the settings status of the sound menu to make sure you are not in vibrate or silent mode.
Hang up or freeze	Intermittent software problem	Remove the battery, reinsert it and switch on the phone. Try to perform a software update via the website.

FAQ

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

Category Sub-Category	Question	Answer
BT Bluetooth Devices	What are the functions available via Bluetooth?	You can connect a Bluetooth audio device such as a Stereo/Mono headset or Car Kit and share pictures, videos, contacts, etc. via Gallery/Contacts menu. Also, when the FTP server is connected to a compatible device, you can share content stored in the storage media (internal memory or SD card).
BT Bluetooth Headset	If my Bluetooth headset is connected, can I listen to my music through my 3.5 mm wired headphones?	When a Bluetooth headset is connected, all system sounds are played over the headset. As a result, you will not be able to listen to music through your wired headphones.
Data Contacts Back up	How can I back up Contacts?	The Contacts data can be synchronized between your phone and Gmail™.
Data Synchronisation	Is it possible to set up one-way sync with Gmail?	Only two-way synchronisation is available.
Data Synchronisation	Is it possible to synchronise all the email folders?	The Inbox is automatically synchronised. You can view other folders by touching the Menu Key and touching Folders to choose a folder.

Category	Question	Answer
Sub-Category		
Google™ Service Gmail Log-In	Do I have to log into Gmail whenever I want to access Gmail?	Once you log into Gmail, you don't need to log into Gmail again.
Google Service Google Account	Is it possible to filter emails?	No, email filtering is not supported via the phone.
Phone Function Email	What happens when I execute another application while writing an email?	Your email will automatically be saved as a draft.
Phone Function Ringtone	Is there a file size limitation for when I want to use a .MP3 file as a ring tone?	There is no file size limitation.
Phone Function Message Time	My phone does not display the time of receipt for messages older than 24 hrs. How can I change this?	You will only be able to see the times for messages received the same day.
Phone Function microSD Card	What is the maximum supported size for a memory card?	32 GB memory cards are compatible.
Phone Function Navigation	Is it possible to install another navigation application on my phone?	Any application that is available on Play Store and is compatible with the hardware can be installed and used.

Category Sub-Category	Question	Answer
Phone Function Synchronisation	Is it possible to synchronise my contacts from all my email accounts?	Only Gmail and MS Exchange server (company email server) contacts can be synchronised.
Phone Function Wait and Pause	Is it possible to save a contact with Wait and Pause in the numbers?	<p>If you transferred a contact with the W & P functions saved into the number, you will not be able to use those features. You will need to re-save each number.</p> <p>How to save with Wait and Pause:</p> <ol style="list-style-type: none">1. From the Home screen, touch the Phone icon .2. Dial the number, then touch the Menu Key.3. Touch Add 2-sec pause or Add wait.
Phone Function Security	What are the phone's security functions?	You are able to set the phone to require the entry of an Unlock Pattern before the phone can be accessed or used.

Category Sub-Category	Question	Answer
Phone Function Unlock Pattern	How do I create the Unlock Pattern?	<ol style="list-style-type: none"> 1. From the Home screen, touch the Menu Key. 2. Touch System Settings > Lock screen. 3. Touch Select screen lock > Pattern. The first time you do this, a short tutorial about creating an Unlock Pattern appears. 4. Set up by drawing your pattern once, then again for confirmation. <p>Precautions to take when using pattern lock.</p> <p>It is very important to remember the unlock pattern you set. You will not be able to access your phone if you use an incorrect pattern five times. You have five chances to enter your unlock pattern, PIN or password. If you have used all 5 opportunities, you can try again after 30 seconds. (Or, if you preset the backup PIN, you can use the backup PIN code to unlock the pattern.)</p>

Category Sub-Category	Question	Answer
Phone Function Unlock Pattern	What should I do if I forget the unlock pattern and I didn't create the Google account on the phone?	<p data-bbox="513 194 876 224">If you have forgotten your pattern:</p> <p data-bbox="513 235 933 487">If you logged in to your Google account on the phone but failed to enter the correct pattern 5 times, touch the forgot pattern button. You are then required to log in with your Google account to unlock your phone. If you have not created a Google account on the phone or you forgot it, you have to perform a hard reset.</p> <p data-bbox="513 498 946 657">Caution: If you perform a factory reset, all user applications and user data will be deleted. Please remember to back up any important data before performing a factory reset.</p> <p data-bbox="513 668 819 698">How to perform a factory reset:</p> <ol data-bbox="513 709 954 1042" style="list-style-type: none"><li data-bbox="513 709 954 802">1. When the phone is switched off, press and hold the Volume down key + Power key with your left hand.<li data-bbox="513 813 954 972">2. When the LED on the bottom of the phone lights up, release Volume down key + Power keys and press and hold the Home key (for about 2 seconds) at the same time.<li data-bbox="513 983 899 1042">3. The phone will turn on and perform a factory reset immediately.

Category Sub-Category	Question	Answer
		<p>3. When the LG logo is displayed on the screen, continue to hold the keys for around two seconds, and then release all them at the same time, before the LG logo disappears.</p> <p>Do not operate your phone for at least a minute, while the hard reset is carried out. You will then be able to switch your phone back on.</p>
Phone Function Memory	Will I know when my memory is full?	Yes, you will receive a notification.
Phone Function Language Support	Is it possible to change the language?	<p>The phone has multilingual capabilities. To change the language:</p> <ol style="list-style-type: none"> 1. From the Home screen, touch the Menu key and touch System Settings. 2. Touch Language & input > Select language. 3. Touch the desired language.
Phone Function VPN	How do I set up a VPN?	<p>VPN access configuration is different according to each company. To configure VPN access from your phone, you must obtain the details from your company's network administrator.</p>

Category Sub-Category	Question	Answer
Phone Function Screen time out	My screen turns off after only 15 seconds. How can I change the amount of time for the backlight to turn off?	<ol style="list-style-type: none">1. From the Home screen, touch the Menu Key.2. Touch System Settings > Display.3. Under Display settings, touch Screen timeout.4. Touch the preferred screen backlight timeout time.
Phone Function Wi-Fi & 3G	When Wi-Fi and 3G are both available, which service will my phone use?	<p>When using data, your phone may default to the Wi-Fi connection (if Wi-Fi connectivity on your phone is set to On). However, there will be no notification when your phone switches from one to the other.</p> <p>To know which data connection is being used, view the 3G or Wi-Fi icon at the top of your screen.</p>
Phone Function Home screen	Is it possible to remove an application from the Home screen?	Yes. Just touch and hold the icon until the dustbin icon appears at the Top-center of the screen. Then, without lifting your finger, drag the icon to the rubbish bin.
Phone Function Application	I downloaded an application and it causes a lot of errors. How do I remove it?	<ol style="list-style-type: none">1. From the Home screen, touch the Menu Key.2. Touch App settings > Downloaded.3. Touch the application, then touch Uninstall.

Category Sub-Category	Question	Answer
Phone Function Charger	Is it possible to charge my phone by USB data cable without installing the necessary USB driver?	Yes, the phone will be charged by the USB cable irrespective of whether the necessary drivers are installed or not.
Phone Function Alarm	Can I use music files for my alarm?	Yes. After saving a music file as a ringtone, you can use it for your alarm. 1. Touch and hold a song in a library list. In the menu that opens, touch Set as ringtone . 2. In an alarm clock setting screen, select the song as a ringtone.
Phone Function Alarm	Will my alarm be audible or will it go off if the phone is turned off?	No, this is not supported.
Phone Function Alarm	If my ringer volume is set to Off or Vibrate, will I hear my Alarm?	Your Alarm is programmed to be audible even in these scenarios.
Recovery Solution Hard Reset (Factory Reset)	How can I perform a factory reset if I can't access the phone's setting menu?	If your phone does not restore to the original condition, use a hard reset (factory reset) to initialise it.