LG-E960 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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Contents

Safety Information

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

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

⚠️Caution

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

• Do not disassemble or open crush, bend or deform, puncture or shred.

• Repairs under warranty, at LG's option, may include replacement parts or boards that are either new or reconditioned, provided that they have functionality equal to that of the parts being replaced.

• Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.

• Only use the battery for the system for which it is specified.

• Only use the battery with a charging system that has been qualified with the system per this standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.

• Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.

• Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725-200x. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.

• Promptly dispose of used batteries in accordance with local regulations.

• Battery usage by children should be supervised.

• Avoid dropping the phone or battery. If the phone or battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.

• Improper battery use may result in a fire, explosion or other hazard.

- For those host devices that utilize a USB port as a charging source, the host device's user manual shall include a statement that the phone shall only be connected to products that bear the USB-IF logo or have completed the USB-IF compliance program.

Charger and Adapter Safety

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

Battery Information and Care

- Please read the manual of proper installation and removal of the battery.
- Please read the manual of specified charger about charging method.
- Do not damage the power cord by bending, twisting, or heating. Do not use the plug if it is loose as it may cause electric shock or fire. Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause electric shock or fire.
- Unplug the power cord prior to cleaning your phone, and clean the power plug pin when it's dirty. When using the power plug, ensure that it's firmly connected. If not, it may cause excessive heat or fire. If you put your phone in a pocket or bag without covering the receptacle of the phone (power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the phone. Short-circuit of the terminal may damage the battery and cause an explosion. Always cover the receptacle when not in use.
- Recharge the battery after long periods of non-use to maximize battery life. Battery life will vary due to usage pattern and environmental conditions.

For Your Safety

- Never store your phone in temperature less than -4 °F or greater than 122 °F.
- Charging temperature range is between 32 °F and 113 °F. Do not charge the battery out of recommended temperature range. Charging out of recommended range might cause the generating heat or serious damage of battery. And also, it might cause the deterioration of battery's characteristics and cycle life.
- Do not use or leave the battery under the blazing sun or in heated car by sunshine. The battery may generate heat, smoke or flame. And also, it might cause the deterioration of battery's characteristics or cycle life.
- The battery pack has protection circuit to avoid the danger. Do not use near places that can generate static electricity more than 100V which could damage the protection circuit. Damaged protection circuits may generate smoke, rupture or ignite.

- When using the battery for the first time, if it emits a bad smell, you see rust on it, or anything else abnormal, do not use the equipment and bring the battery to the shop which it was bought.
- Keep batteries away from babies and small children. If children use the battery, their parents or legal guardians are responsible for supervising and teaching them about the safe handling of batteries and how to use batteries according to the manual with care.
- If liquid from the battery rubs against skin or clothing, wash with fresh water. It may cause the skin inflammation. Remove and do not use the battery. Be careful that children do not swallow any parts (such as earphone, connection parts of the phone, etc.). This could cause asphyxiation or suffocation resulting in serious injury or death.
- Do not handle the phone with wet hands while it is being charged. It may cause an electric shock or seriously damage your phone.

- Do not place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.
- Do not use harsh chemicals (such as alcohol, benzene, thinners, etc.) or detergents to clean your phone. This could cause a fire.
- Always unplug the charger from the wall socket after the phone is fully charged to save unnecessary power consumption of the charger.

Care and Maintenance

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

Keep your Mobile Device away from:
Liquids of any kind

Keep the mobile device dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits. If the mobile device does get wet, do not accelerate

drying with the use of an oven, microwave, or dryer, because this may damage the mobile device and could cause a fire or explosion.
Do not use the mobile device with a wet hand.
Doing so may cause an electric shock to you or damage to the mobile device.

Extreme heat or cold

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

Microwaves

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

Dust and dirt

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

Sunscreen lotion

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

Cleaning solutions

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

Shock or vibration

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

Paint

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

General Notice

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

- Do not place items containing magnetic components such as a credit card, phone card, bank book, or subway ticket near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.

- Talking on your phone for a long period of time may reduce call quality due to heat generated during use.

- When the phone is not used for a long period time, store it in a safe place with the power cord unplugged.

- Using the phone in proximity to receiving equipment (i.e., TV or radio) may cause interference to the phone.

- Do not use the phone if the antenna is damaged. If a damaged antenna contacts skin, it may cause a slight burn. Please contact an LG Authorized Service Center to replace the damaged antenna.

- The data saved in your phone might be deleted due to careless use, repair of the phone, or upgrade of the software. Please backup your important phone numbers. (Ringtones, text messages, voice messages, pictures, and videos could also be deleted.) The manufacturer is not

liable for damage due to the loss of data.
- When you use the phone in public places, set the ringtone to vibration so you don't disturb others.
- Do not turn your phone on or off when putting it to your ear.
- Your phone is an electronic device that generates heat during normal operation. Extremely prolonged, direct skin contact in the absence of adequate ventilation may result in discomfort or minor burns. Therefore, use care when handling your phone during or immediately after operation.

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

FCC Part 15 Class B Compliance

This device complies with part15 of FCC rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference,
(2) this device must accept any interference received, including interference that may causes undesired operation.

Part 15.21 statement

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

Part 15.105 statement

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

the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC RF Exposure Information
WARNING! Read this information before operating the phone.
In August 1996, the Federal Communications Commission (FCC) of the United States, with its action in Report and Order FCC 96-326, adopted an updated safety standard for human exposure to Radio Frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and

international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

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

Vehicle-Mounted External Antenna
(Optional, if available.)
To satisfy FCC RF exposure

requirements, keep 8 inches (20 cm) between the user / bystander and vehicle-mounted external antenna. For more information about RF exposure, visit the FCC website at www.fcc.gov.

Caution

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

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

Consumer Information About Radio Frequency Emissions

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

Are wireless phones safe?

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

can also contact the FDA toll-free at (888) 463-6332 or (888) INFO-FDA. In June 2000, the FDA entered into a cooperative research and development agreement through which additional scientific research is being conducted. The FCC issued its own website publication stating that "there is no scientific evidence that proves that wireless phone usage can lead to cancer or a variety of other problems, including headaches, dizziness or memory loss." This publication is available at http://www.fcc.gov/oet/rfsafety or through the FCC at (888) 225-5322 or (888) CALL-FCC.

What does "SAR" mean?
In 1996, the FCC, working with the FDA, the U.S. Environmental Protection Agency, and other agencies, established RF exposure safety guidelines for wireless phones in the United States. Before a wireless phone model is available for sale to the public, it must be tested by the manufacturer and certified to the FCC that it does not exceed

limits established by the FCC. One of these limits is expressed as a Specific Absorption Rate, or "SAR." SAR is a measure of the rate of absorption of RF energy in the body. Tests for SAR are conducted with the phone transmitting at its highest power level in all tested frequency bands. Since 1996, the FCC has required that the SAR of handheld wireless phones not exceed 1.6 watts per kilogram, averaged over one gram of tissue. Although the SAR is determined at the highest power level, the actual SAR value of a wireless phone while operating can be less than the reported SAR value. This is because the SAR value may vary from call to call, depending on factors such as proximity to a cell site, the proximity of the phone to the body while in use, and the use of hands-free devices. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the

body) as required by the FCC for each model.

The highest SAR value for this model phone when tested for use at the [garbled text] the body, as described in this user [garbled text] measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

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

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

Can I minimize my RF exposure?

If you are concerned about RF, there are several simple steps you can take to minimize your RF exposure. You can, of course, reduce your talk time. You can place more distance between your body and the source of the RF, as the exposure level drops off dramatically with distance. The FDA/FCC website states that "hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements

regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit." Also, if you use your wireless phone while in a car, you can use a phone with an antenna on the outside of the vehicle. You should also read and follow your wireless phone manufacturer's instructions for the safe operation of your phone.

Do wireless phones pose any special risks to children?

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

Where can I get further information about RF emissions?

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

U.S. Food and Drug Administration

FDA Consumer magazine
November-December 2000
Telephone: (888) INFO-FDA
http://www.fda.gov (Under "C" in the

subject index, select Cell Phones > Research.)

U.S. Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554
Telephone: (888) 225-5322
http://www.fcc.gov/oet/rfsafety

Independent Expert Group on Mobile Phones
http://www.iegmp.org.uk

Royal Society of Canada Expert Panels on Potential Health Risks of Radio Frequency Fields from Wireless Telecommunication Devices
283 Sparks Street
Ottawa, Ontario K1R 7X9
Canada
Telephone: (613) 991-6990

World Health Organization
Avenue Appia 20
1211 Geneva 27
Switzerland
Telephone: 011 41 22 791 21 11
http://www.who.int/mediacentre/
factsheets/fs193/en/

International Commission on Non-Ionizing Radiation Protection
c/o Bundesamt fur Strahlenschutz
Ingolstaedter Landstr. 1
85764 Oberschleissheim
Germany
Telephone: 011 49 1888 333 2156
http://www.icnirp.de

American National Standards Institute
1819 L Street, N.W., 6th Floor
Washington, D.C. 20036
Telephone: (202) 293-8020
http://www.ansi.org

National Council on Radiation Protection and Measurements
7910 Woodmont Avenue, Suite 800
Bethesda, MD 20814-3095
Telephone: (301) 657-2652
http://www.ncrponline.org

Engineering in Medicine and Biology Society, Committee on Man and Radiation (COMAR) of the Institute of Electrical and Electronics Engineers
http://ewh.ieee.org/soc/embs/comar/

TIA Safety Information

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

Exposure to Radio Frequency Signal

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

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

　ANSI C95.1 (1992) *
　NCRP Report 86 (1986)
　ICNIRP (1996)

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

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

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

Antenna Care

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

Phone Operation

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

Tips on Efficient Operation

For your phone to operate most efficiently:
Don't touch the antenna unnecessarily

when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

Electronic Devices

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

Pacemakers

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

Persons with pacemakers:
• Should ALWAYS keep the phone more than six (6) inches from their pacemaker when the phone is turned ON;

• Should not carry the phone in a breast pocket;
• Should use the ear opposite the pacemaker to minimize the potential for interference;
• Should turn the phone OFF immediately if there is any reason to suspect that interference is taking place.

Hearing Aids

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

Other Medical Devices

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

Health Care Facilities

Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so.

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Hospitals or health care facilities may use equipment that could be sensitive to external RF energy.

Vehicles

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

Posted Facilities

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

Aircraft

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

Blasting Areas

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

Potentially Explosive Atmosphere

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always marked clearly. Potential areas may include: fueling areas (such as gasoline stations); below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles (such as grain, dust, or metal powders); and any other area where you would normally be advised to turn off your vehicle engine.

For Vehicles Equipped with an Air Bag

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

FDA Consumer Update

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

1. Do wireless phones pose a health hazard?

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

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

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

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

• Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and

• Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

For Your Safety

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

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

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

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

The FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term "wireless phone" refers here to handheld wireless phones with built-in antennas, often called "cell", "mobile", or "PCS" phones. These types of wireless phones can expose the user to measurable Radio Frequency (RF) energy because of the short distance between the phone and the user's head.

These RF exposures are limited by FCC safety guidelines that were developed with the advice of the FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

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

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of Radio Frequency (RF) energy exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we do not know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer,

glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop — if they do — may

be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

The FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to Radio Frequency (RF) energy. The FDA has been a leading participant in the World Health Organization International Electro Magnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The project has also helped develop a series of public information documents on EMF issues.

The FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research And Development Agreement (CRADA) to do research on wireless phone safety. The FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts with independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

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

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit Radio Frequency (RF) energy exposures. The FCC established these guidelines in consultation with the FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless phones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic

Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

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

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the Radio Frequency (RF) energy exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques", sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

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

If there is a risk from these products — and at this point we do not know that there is — it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to Radio Frequency (RF) energy. Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure. If you must conduct extended conversations by wireless

phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna. Again, the scientific data does not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to Radio Frequency (RF) energy, the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radio Frequency (RF) energy from wireless phones can interact with some electronic devices. For this reason, the FDA helped develop a detailed test method to measure Electro Magnetic Interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by the FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

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

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

12. Where can I find additional information?

For additional information, please refer to the following resources:
Federal Communications Commission (FCC) RF Safety Program
(http://www.fcc.gov/oet/rfsafety)
International Commission on Non-Ionizing Radiation Protection
(http://www.icnirp.de)

World Health Organization (WHO) International EMF Project
(http://www.who.int/emf)
National Radiological Protection Board (UK)
(http://www.hpa.org.uk/radiation/)

Driving

Check the laws and regulations on the use of wireless phones in the areas where you drive and always obey them. Also, if using your phone while driving, please observe the following:
• Give full attention to driving -- driving safely is your first responsibility;
• Use hands-free operation, if available;
• Pull off the road and park before making or answering a call if driving conditions or the law require it.

HAC statement

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses.
However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids. It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise.
Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility.
If you have questions about return or exchange policies, consult your service provider or phone retailer.

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

While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.
The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users to find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.
The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

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

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

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

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark.

The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules.

The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

To enter that the Hearing Aid Compatibility rating for your phone is maintained, secondary transmitters such as Bluetooth and WLAN(this phone does not have WLAN) components must be disabled during a call. See page 118 for instructions to disable these components.

For information about hearing aids and digital wireless phones
Wireless Phones and Hearing Aid Accessibility
http://www.accesswireless.org/
FCC Hearing Aid Compatibility and Volume Control http://www.fcc.gov/cgb/consumerfacts/hac_wireless.
html

Getting to know your phone

Device components

Earpiece

Power/Lock key
- Switch your phone on/off by pressing and holding this key.
- Short press to lock/unlock the screen.

Camera lens

Proximity sensor

Back key ⬅
Return to the previous screen.

Home key
Return to the home screen from any screen.

Menu key ☰
- Check what options are available.
- Go to Google Search™ by pressing and holding this key.
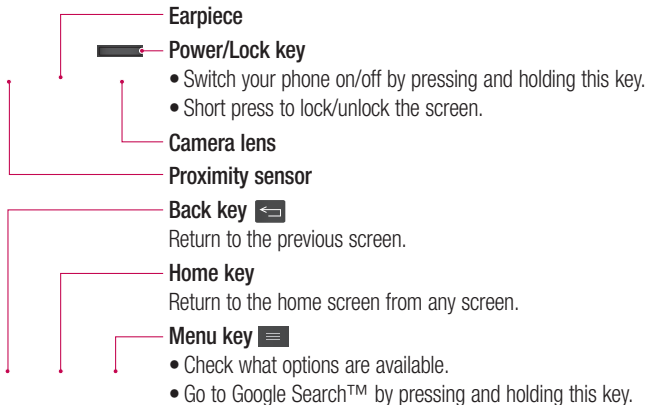
NOTE: Proximity sensor
When receiving and making calls, the proximity sensor automatically turns the backlight off and locks the touch screen by sensing when the phone is near your ear. This extends battery life and prevents you from unintentionally activating the touch screen during calls.

⚠ **WARNING**
Placing a heavy object on the phone or sitting on it can damage the LCD and touch screen functions. Do not cover the LCD proximity sensor with protective film. This could cause the sensor to malfunction.

Volume keys
- **In the home screen:** Control ringer volume.
- **During a call:** Control your earpiece volume.
- **When playing a track:** Control volume continuously.

Tip! Once press the volume up and down keys simultaneously, you can use Quick memo function.

Power/Lock key
Earphone Jack
Charger/USB port/MHL port

Microphone

Camera lens

SIM card slot

Battery cover

microSD Card slot

Battery

Speaker
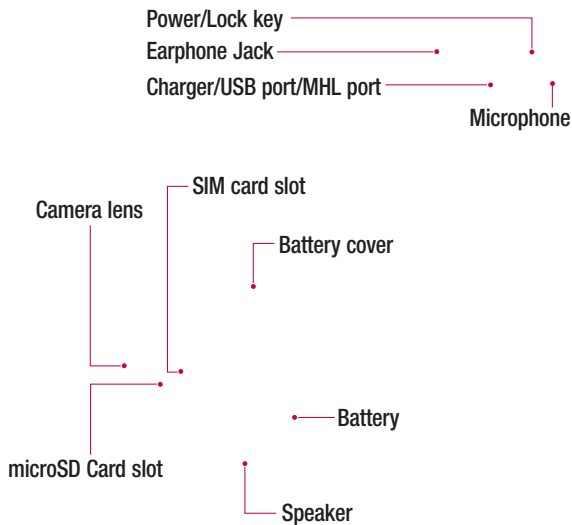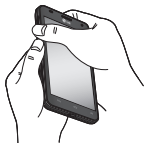
QuickMemo

Use **QuickMemo** to practically and efficiently create memos during a call, with a saved picture or on the current phone screen.
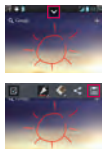
1 Enter the **Quick-Memo** screen by pressing both the Volume Up and Volume Down Keys for one second on the screen you want to capture.

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 ▾ from 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 if you want to use the background screen or not.
- 📝 – Select the pen type and the colour.
- ◀ – Erase the memo that you created.
- ◢ – Set the location where you want to save the memo.
- 📄 – Save the memo with the current screen.
- ◁ – Send or share the current QuickMemo to others.

Viewing the saved QuickMemo

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

4 Align the battery cover over the battery compartment (1) and press it down until it clicks into place (2).

Charging your phone

The charger connector is at the bottom of the phone. Insert the charger and plug it into an electrical outlet.

NOTE
- The battery must be fully charged initially to improve battery lifetime.
- Do not open the battery cover during the charging your phone.

Using the memory card

To insert a memory card:

Insert the memory card into the slot. Make sure the gold contact area is facing downwards.

To remove the memory card safely:

Touch ▦ > **Apps** tab > **Settings** > **Storage** from the DEVICE > **Unmount SD card** > **OK**.

NOTE: The LG-E960 supports memory cards up to 64 GB.

⚠ WARNING
Do not insert or remove the memory card when the phone is on. Doing so may damage the memory card as well as your phone, and the data stored on the memory card may get corrupted.

To format 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 it is formatted.

1 On the home screen, touch 🔳 > **Apps** tab to open the menu.
2 Scroll and touch **Settings** > **Storage**.
3 Touch **Unmount SD card** and touch **OK** to confirm it.
4 Touch **Erase SD card** > **Erase SD card** > **Erase everything**, then confirm your choice.
5 If you have set a pattern lock, input the pattern lock then select **Erase everything**.

NOTE: If there is content on your memory card, the folder structure may be different after formatting as all the files will be 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-E960, 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 your screen so that only you can unlock it to access your phone.

To set an Unlock Pattern, PIN or Password for the first time:

• Touch ▦ > **Apps** tab > **Settings** > **Lock screen** > **Select screen lock** > **None, Swipe, Face Unlock, Pattern**, **PIN** or **Password.**

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 5 times. You have 5 opportunities 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. 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.

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

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 be different depending on your phone provider.

On your home screen, you can view menu icons at the bottom of the screen. Menu icons 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 **Contacts** icon to open your contacts.

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

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 apps and widgets to the home screen.

To add items on your home screen:

1 Touch and hold the empty part of the home screen.
Or touch ➕ at the top of the right side.

2 In the Add Mode menu, select items you want to add. You will then see added items on the home screen.

3 Drag it to the location you want and lift your finger.

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 Apps menu, touch and hold the application you want to add.

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.
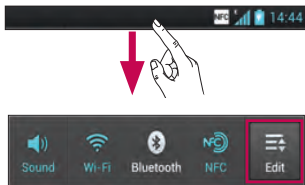
Touch and slide the notification drawer down with your finger.

Touch 🎚 > 🎚 to manage the Notifications. Here you can check and manage QuickMemo, Sound profile, Wi-Fi, Bluetooth, NFC, Accounts & sync, Airplane mode, Auto-rotate screen, Brightness, Data enabled, GPS or Portable Wi-fi hotspot.

Viewing the status bar

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

 14:44

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
📞	Call hold
🔊	Speakerphone
🎤	Phone microphone is muted
📵	Missed call
🔵	Bluetooth is on

Icon	Description
⚠	System warning
🕐	Alarm is set
📼	New voicemail
🔇	Ringer is silenced
NFC	NFC is on
📳	Vibrate mode
🔋	Battery fully charged
🔋	Battery is charging
⟱	Phone is connected to PC via USB cable
⬇	Downloading data
⬆	Uploading data
◈	GPS is acquiring
◈	Receiving location data from GPS
⟳	Data is syncing
✉	New Gmail

Icon	Description
🔤	New Google Talk message
😊	New message
▶	Song is playing
📻	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

Onscreen keyboard

You can enter text using the onscreen keyboard. The onscreen 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.

Using the keypad & entering text

⬆ Tap once to capitalise the next letter you type. Double-tap 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.

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 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 🔲 > **Apps** tab > **Settings** > **Wi-Fi** from the WIRELESS & NETWORKS
2 Set **Wi-Fi** to **ON** to turn it on and start scanning for available Wi-Fi networks.

3 Tap 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 secured, you are prompted to enter a password or other credentials. (Ask your network administrator for details)
5 After connecting to a Wi-Fi network, the status bar displays icon that indicate Wi-Fi status.

Bluetooth

You can use Bluetooth to send data by running a corresponding application as on most other mobile phones.

> **TIP!** With LG-E960, you can enjoy Bluetooth high speed. If the device you want to share files which also supports high speed Bluetooth, the files will automatically be transferred via the high-speed network. To use Bluetooth high speed data transfer, please make sure the Wi-Fi is OFF on your devices before use. The settings for Bluetooth high speed may be different depends on the device. Please check the device's settings with their service provider.

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

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

1 Touch ▦ > **Apps** tab > **Settings** > Set **Bluetooth** to **ON** from the WIRE-LESS & NETWORKS

2 Tap **Bluetooth** menu again. Your phone will scan for and display the IDs of all available Bluetooth in-range devices. If the device you want to pair which 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 paring is successful, your device will connect to the device.

Sending pictures using Bluetooth

1 Select a **Picture** > ◄ > **Bluetooth**

2 Check whether **Bluetooth** is **ON**, then select **Search for devices**.

3 Choose the device you want to send data to from the list.

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 a single 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 ▦ > **Apps** tab > **Settings** > **More** from the WIRELESS & NETWORKS > **Portable Wi-Fi hotspot** > Choose options that you want to adjust

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 🔳 > **Apps** tab > **Settings**

2 Touch **More** from the WIRELESS & NETWORKS 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** dialog 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** dialog. 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 the Wi-Fi Cast

You can share your music, picture and video content between users who use Android Phones connected via the same Wi-Fi & Wi-Fi Direct network.

Check your Wi-Fi & Wi-Fi Direct network in advance and make sure the users are connected to the same network.

1 Touch 🏠 > **Apps** tab > **Settings** > **More** from the WIRELESS & NET-WORKS > **Wi-Fi Direct**
2 Touch the Wi-Fi Direct checkbox to turn on.
3 Select a device to connect from the scanned device list.
4 Touch **Connect**.

Enabling Wi-Fi Direct to share through SmartShare

Wi-Fi Direct automatically scans nearby Wi-Fi Direct devices and the searched devices are listed as they are found and you can select a specific device to share multimedia data through SmartShare.
Wi-Fi Direct cannot be enabled while using other Wi-Fi functions.

1 Touch 🏠 > **Apps** tab > **Settings** > **More** from the WIRELESS & NET-WORKS > **Wi-Fi Direct**
2 Select a device to connect from the scanned device list.

CREATE GROUP – Touch to activate group owner mode, which enables the legacy Wi-Fi devices to connect by scanning your phone. In this case you must enter the password that is set in **Password**.

NOTE: When your phone becomes a group owner, it will consume more battery power than when it is a client. Wi-Fi Direct connection does not provide Internet service. Additional costs may be incurred when connecting and using online services. Check data charges with your network provider.

Using SmartShare

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

To turn SmartShare on and allow sharing contents

1 Touch ▦ > **Apps** tab > **SmartShare**
2 Press ▤ and select **Settings**.
3 Touch Discoverable checkbox to turn off.

• Touch **Always accept request** to turn on if you would like to automatically accept sharing requests from other devices.

• Touch **Receive files** to turn on if you would like to automatically allow upload files to my phone from other devices.

1 Under the Sharing contents section, touch to checkmark the types of content you would like to share. Choose from **Pictures**, **Videos** and **Music**.
2 **SmartShare** is now activated and ready to share contents.

To share contents from remote content library to other 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 top right button to or select the device from renderer lists.
2 Touch the top left button and select the device of the remote content library.
3 You can browse the content library.
4 Touch a content thumbnail or press the **Menu** key and select **Play** button.

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 browsing your pictures or videos using the **Gallery** application, touch ◁ to select files. Then you will be able to select multiple files to be shared.

2 Touch **Share** on the menu and select the **SmartShare**.

3 **SmartShare** is automatically launched with the selected files.

4 Select the device from renderer lists to play the files.

> **NOTE:** Follow the similar steps to use the Music Player, Camera and Video player to share contents.

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 remote content library

1 Touch ▦ > **Apps** tab > **SmartShare**

2 Touch the top left button and select the device of the remote content library.

3 You can browse the content library.

4 Touch and hold a content thumbnail then touch **Download menu key**.

Notice: A few types of contents are not supported.

To upload contents from my phone to remote content library

> **NOTE:** Mare sure that SD card is correctly mounted and the Receive files in settings menu is checked.

1 Touch ▦ > **Apps** tab > **SmartShare**

2 Touch the top left button and select My phone.

3 You can browse the content library.

4 Touch and hold a content thumbnail and then touch the **Upload menu key**.

5 Select a device of remote content library to be uploaded.

Notice: Some DLNA enabled devices do not support DMS upload functionality and will not be uploaded. A few types of contents are not supported.

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 ⓪⁺.

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 incoming call.
Hold and slide the 📞 to Decline an incoming call.

Hold and slide the **Quick msg** icon from the bottom if you want to send one.

> **TIP! Quick msg**
> You can send a message quickly using this function. This is useful if you need to reply the 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 left-hand side of the phone.

Making a second call

1 During your first call, touch **Menu** > **Add call** and dial the number. Also, you can go recent dialled list by touching 🔁 or can search 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 press Home Key and slide the notification bar down and select **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 dialled, received and missed calls.

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

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

Call settings

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

1 On the home screen, touch.

2 Touch menu.

3 Tap **Call settings** and choose the options that you want to adjust.

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

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

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.

Save unknown numbers – Add unknown numbers to contacts after a call.

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).

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 📞, enter the new contact's number, then press the **Menu** key. Touch **Add to Contacts** > **Create new contact**.

2 If you want to add a picture to the new contact, touch the image area. Choose from **Take photo** or **Select from Gallery**.

3 Select the contact type by touching ◢.

4 Touch a category of contact information and enter the details about your contact.

5 Touch **Save**.

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 colorful.

Removing a contact from your favourites list

1 Touch 👤 to open your contacts.

2 Touch the ⭐ tab, select **Favourites** at the top of the list and choose a contact to view its details.

3 Touch the colorful star to the right of the contact's name. The star turns grey and the contact is removed from your favourites.

Moving contacts from your Old Device to your New Device

Export your contacts as a CSV file from your old device to your PC using a PC sync program.

1 Install "LG PC Suite" on the PC first. Run the program and connect your Android mobile phone to the PC using a USB cable.

2 On the top menu, select **Device > Import to device > Import contacts**.

3 A popup window to select the file type and a file to import will appear.

4 On the popup, click the **Select a file** and Windows Explorer will appear.

5 Select the contacts file to import in Windows Explorer and click the **Open**.

6 Click **OK**.

7 A **Field mapping** popup to link the contacts in your device and new contacts data will appear.

8 If there is a conflict between the data in your PC contacts and device contacts, make the necessary selections or modifications in LG PC Suite.

9 Click **OK**.

Messaging

Your LG-E960 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 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.

1 Touch Enter message field and start to compose your message.

2 Press ☰ to open the Options menu. Choose from **Add subject**, **Discard**, **Attach**, **Insert smiley** and **All messages**.

3 Touch **Send** to send your message.

4 The message screen opens, with your message after Recipient Name/Number. Responses appear on the screen. As you view and send additional messages, a message thread is created.

> ⚠ **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 Smilies

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

Changing your message settings

Your LG-E960 message settings are predefined, so you can send messages immediately. You can change the settings based on your preferences.

E-mail

You can use the Email application to read emails from services other than Gmail. 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 an email account's setting:
- 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 ☰ > **Remove account** > touch an account you want to delete > **OK**

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 to open your Combined Inbox, with messages sent to all of your accounts. Messages in the Combined Inbox are colour coded on the left, by account, using the same colours used for your accounts in the Accounts screen.

📁 – Touch the folder icon to open the account folders.

Only the most recent emails in your account are downloaded to your phone. To download more (earlier) email messages, touch Load more emails at the bottom of the emails list.

E-mail

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 semicolon.
3 Add Cc/Bcc and add attachment files if required.
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 is 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

Getting to know the viewfinder
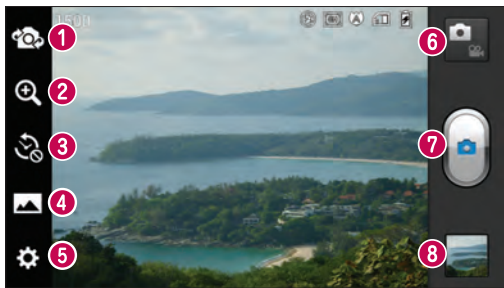
- ❶ **Switch lenses** – Switch between the rear–facing camera lens and the front–facing camera lens.
- ❷ **Zoom** – Zoom in or zoom out. Alternatively you can use the zoom in or out by pinching in or out.
- ❸ **TimeCatch shot** – Touch this icon to capture the missing moment before pressing the shutter.
- ❹ **Shot mode** – Choose from **Normal**, **HDR, Panorama** or **Continuous shot**.
- ❺ **Settings** – Touch this icon to open the Settings menu.
- ❻ **Video mode** – Touch this icon to switch to video mode.
- ❼ **Taking a photo**
- ❽ **Gallery** – Touch to view the last photo you captured. This enables you to access your gallery and view saved photos within camera mode.

Camera

Taking a quick 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 photo.

Once you've taken the photo

Touch ▣ to view the last photo you captured.

◀ Touch to share your photo using **Bluetooth**, **E-mail**, **Gmail**, **Google+**, **Memo**, **Messaging**, **Picasa**, **SmartShare** and **Social+**.

TIP! If you have an SNS account and set it up on your phone, you can share your photo with the SNS community.

🗑 Touch to delete the photo.

Touch ☰ to open the options.

Set image as – Touch to use the photo as a Contact photo, Lockscreen Wallpaper or Wallpaper.

Move – Touch to move the photo to other place.

Rename – Touch to edit the name of the selected picture.

Rotate left/right – To rotate left or right.

Crop – Crop your photo. Move your finger across the screen to select the area.

Edit – View and edit the picture.

◢ Select the photo resolution. If you choose the high resolution, the file size will increase, which means you will be able to store fewer photos in the memory.

🅵🆇 Improves colour qualities in different lighting conditions.

⬤ Applies artistic effects to the pictures.

▣ Applies the additional options for pictures.

Slideshow – Auto review automatically shows you the picture you just recorded.

Details – Show the picture information.

Using the advanced settings

In the viewfinder, touch 🔧 to open all advanced options.

⚡ – Allows you to turn on the flash when taking a photo in dark conditions.

🔳 – This defines and controls the amount of sunlight entering the photo.

🔳 – Focuses on the specific spot.

🔳 – Select the photo resolution. If you choose the high resolution, the file size will increase, which means you will be able to store fewer photos in the memory.

🔳 – Finds the color and light settings appropriate for the current environment. Choose from **Normal**, **Portrait**, **Landscape**, **Sports** or **Night**.

ISO – The ISO rating determines the sensitivity of the camera's light sensor. The higher the ISO, the more sensitive the camera is. This is useful in darker conditions when you cannot use the flash.

WB – Improves colour qualities in different lighting conditions.

🔳 – Applies artistic effects to the pictures.

🔳 – Set a delay after the capture button is pressed. This is ideal if you want to be in the photo.

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

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

🔳 – Select one of some shutter sounds.

🔳 – It automatically shows you the picture you just took.

🔳 – Select storage to save photos.

🔳 – Restore all camera default settings.

❓ – Touch whenever you want to know how this function operates. This provides you with a quick guide.

TIP! When you exit the camera, some settings return to their defaults, such as white balance, colour tone, timer and scene mode. Check these before you take your next photo.

TIP! The Settings menu is superimposed over the viewfinder so, when you change elements of the photo colour or quality, you see a preview of the image change behind the Settings menu.

Video camera

Getting to know the viewfinder
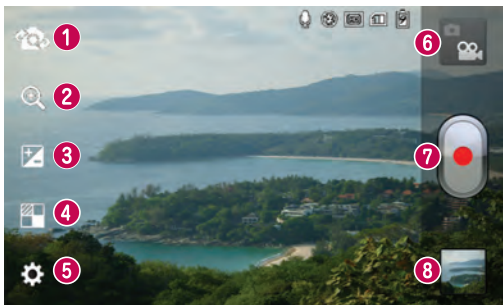
- ❶ **Switch lenses** – Switch between the rear–facing camera lens and the front-facing camera lens.
- ❷ **Zoom** – Zoom in or zoom out. Alternatively you can use the zoom in or out by pinching in or out.
- ❸ **Brightness** – This defines and controls the amount of sunlight entering the video.
- ❹ **Effects** – Live effect provides various visual effects when taking a video.
- ❺ **Settings** – Touch this icon to open the settings menu.
- ❻ **Camera mode** – Touch this icon to switch to camera mode.
- ❼ **Start recording**
- ❽ **Gallery** – Touch to view the last video you recorded. This enables you to access your gallery and view your saved videos from within video mode.

Shooting a quick video

1 Touch the **Camera** mode button.

2 The video camera viewfinder appears on the screen.

3 Holding the phone, point the lens towards the subject you want to capture in your video.

4 Press the Record 🔴 button once to start recording.

5 A red light appears at the top corner of the viewfinder with a timer showing the length of the video.

> **Tip!**
> 🔘 – Touch to capture image during recording a video.

6 Touch 🔴 on the screen to stop recording.

After shooting a video

Your captured video will appear on the Gallery. Touch ▬ to view the last video you recorded.

▶ Touch to play the video.

◄ Touch to share the video **Bluetooth**, **E-mail**, **Gmail**, **Messaging**, **SmartShare** or **YouTube**.

🗑 Touch to delete the video you just made. Confirm by touching **OK**. The viewfinder reappears.

Touch ▬ to open the options.

Move – Touch to move the video to other place.

Rename – Tap to edit the name of the selected video.

Details – Tap to see a detailed information, such as the name, date, time, size and type.

Using the advanced settings

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

⚡ – Allows you to turn on the flash when recording a video in dark conditions.

▦ – Touch to set the size (in pixels) of the video you are recording.

ᴡʙ – Improves colour qualities in different lighting conditions.

🎨 – Choose a colour tone to use for your new view.

◈ – Activate to use your phone's location-based services.

🎤 – Choose **Off** to record a video without sound.

▣ – Auto review automatically shows you the video you just recorded.

▯ – Select storage to save videos.

🔄 – Restore all video camera default settings.

📄 – Touch if you want to know how this function operates. This provides you with a quick guide.

Adjusting the volume when viewing a video

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

Multimedia

You can store multimedia files on a memory card for easy access to all your multimedia files.

Video Player

Your LG-E960 has a built-in video player that lets you play all your favourite videos. To access the video player, Touch ▦ > **Apps** tab > **Video Player**.

Playing a video

1 In the home screen, touch ▦ > **Apps** tab > **Video Player**.
2 Select the video you want to play.

⏸	Touch to pause playback a video.
▶	Touch to resume playback a video.
⏩	Touch to go 10 seconds forward.
⏪	Touch to go 10 seconds backward.
🔊	Touch to manage the video volume.
▢	Touch to set Dolby audio effect when connected with headset jack.
▸▸	Touch Speed controller icon and drag the progress bar to control playback speed.
▣	Touch Preview frame icon and drag the handler of seek bar to explore the content with a preview screen.

🔓	Touch to lock a video screen.
◂	Touch the direct list icon to see the list of videos.

To change the volume while listening to music, press the up and down volume keys on the left-hand side of the phone.

Touch and hold any song in the list. It displays **SmartShare, Delete** and **Details** as options.

Gallery

Touch ▦ > **Apps** tab > **Gallery**. Open a list of catalogue bars that store all your multimedia files.

Music Player

Your LG-E960 has a built-in music player that lets you play all your favourite tracks. To access the music player, Touch ▦ > **Apps** tab > **Music Player**.

Transferring music files using USB mass storage devices

1 Connect the LG-E960 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 **Settings** > **Connectivity** >

USB connection type, then select **Media sync (MTP)**.

3 You can view the mass storage content on your PC and transfer the files.

Playing a song

1 In the Home screen, touch 🔳 > **Apps** tab > **Music Player**.

2 Touch **Songs**.

3 Select the song you want to play.

⏸	Touch to pause playback.
▶	Touch to resume playback.
▶▶	Touch to skip to the next track in the album, playlist.
◀◀	Touch to go back to the beginning of the song. Touch twice to return to the previous song.
🔊	Touch to manage the music volume.
🔁	Touch to set repeat mode.
🔀	Touch to set shuffle mode.
☰	Touch to see the current playlist.
📄	Touch to see lyrics. This option is on only if the song includes the lyrics.

To change the volume while listening to music, press the up and down volume keys on the left-hand side of the phone.

Touch and hold any song in the list. It displays **Play**, **Add to playlist**, **Set as ringtone**, **Delete**, **Share**, **Search** and **Details**.

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, check the national laws of the relevant country concerning the use of such material.

FM Radio

Your LG-E960 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 headphones to listen to the radio. Insert it into the headphone jack.

Searching for stations

You can tune in to radio stations by searching for them manually or automatically. They are then saved to specific channel numbers, so you don't have to find them again.

You can store up to 48 channels on your phone.

Tuning in automatically

1 In the home screen, touch 📱 > **Apps** tab > **FM Radio**.
2 Touch ☰, then select **Scan**.
3 During auto scanning, touch **Stop** if you want to stop scanning. Only scanned channels are saved before you stop scanning.

NOTE: You can also manually tune in to a station using the on-screen wheel.

TIP! To improve radio reception, extend the headset cord as this also functions as the radio antenna.
If you connect a headset not specifically made for radio reception, radio reception may be poor.

LG Tag+

What is LG Tag+

LG Tag+ allows easy saving and loading to NFC tag, which can be customized to suit certain environments.

Using Tag+ writing

1 Touch 📱 > **Apps** tab > **LG Tag+**.
2 Select the desired mode (Car/Office/Sleep/User mode settings) and tap **Write on tag**.
3 Touch the back of your device to a tag or a device to share, then launching application and changing settings can be set.

Using Tag+ reading

When touching the set tag or a device, mode will be activated right away.

Media Home

Using media home

1 Touch ▦ > **Apps** tab > **Media Home**
2 Select the desired funcion among of videos, photos, music.

Setting media home

1 Touch ▦ > **Apps** tab > **Media Home** > **Settings**
2 You can change the settings based on your preferences.

> **Tip!**
> Once you connect your device to a TV or monitor via a MHL cable, media home apps will be launch automatically.

LG SmartWorld

LG SmartWorld offers an assortment of exciting content - games, applications, wallpaper and ringtones - giving LG phone users the chance to enjoy richer "Mobile Life" experiences.

How to Get to LG SmartWorld from Your Phone

1 Tap the icon to access LG SmartWorld.
2 Tap Sign in and enter ID/PW for LG SmartWorld. If you have not yet signed up, tap Register and get a LG Smart-World membership.
3 Download the content you want.

> **NOTE: What if there is no icon?**
> 1 Using a mobile Web browser, access LG SmartWorld (www.lgworld.com) and select your country.
> 2 Download LG SmartWorld App.
> 3 Execute and install the downloaded file.
> 4 Access LG SmartWorld by tapping the icon.

How to use LG SmartWorld

• Participate in monthly LG SmartWorld promotions.
• Try the easy "Menu" buttons to find what you're looking for fast.
  Categories – Find contents by category (e.g. Education, Entertainment, Games, etc).
  Search – Search Content.
  Apps for you – Recommended content based on your previous choices.
  My apps – List of downloaded/to-be updated contents.
  Settings – Set Profile and Display.
  Sign in – Set your ID and Password.
• Try other useful functions as well. (Content Detail screen)

> **NOTE:** LG SmartWorld may not be available in all carriers or countries.

Utilities

Setting your alarm

1 Touch ▦ > **Apps** tab > **Alarm/Clock** > ◙

2 After you set the time, the LG-E960 lets you know how much time is left before the alarm will sound.

3 Set **Repeat**, **Snooze duration**, **Vibration**, **Alarm tone**, **Puzzle lock** and **Memo**. Touch **Save**.

Using your calculator

1 Touch ▦ > **Apps** tab > **Calculator**

2 Touch the number keys to enter numbers.

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

4 For more complex calculations, touch ▤, select the **Advanced panel**, then choose sin, cos, tan, log and so on.

Adding an event to your calendar

1 Touch ▦ > **Apps** tab > **Calendar**

2 On the middle of the screen, you can find the different view types of the Calendar (Day, Week, Agenda).

3 Tap on the date you want to add event on and touch ⊕

4 Touch **Event name** then enter the event name.

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

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

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

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

Polaris Office

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

Touch > **Apps** tab > **Polaris Office.**

Managing files

Polaris Office provides mobile users with convenient file management features, including copying, moving and pasting, and deleting files and folders right on the device.

Viewing files

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

Backup

About backing up and restoring smart phone data

It recommends that you regularly create and save a backup file on the Storage card, especially before you update any software. Maintaining a current backup file on Storage memory might allow you to recover smart phone data if your smart phone is lost, stolen, or corrupted by an unforeseen issue.

This Backup application support between LG smart phones, other S/W version or OS. And so, when you buy the new LG smart phone, you can back up the current LG-E960 smart phone data on your new one.

If you have preloaded application Backup & Restore on your smart phone, you can back up and restore most of your smart phone data, **Applications** including unprotected applications, their settings, **Applications (Downloaded), Applications (Pre-installed), Bookmarks**, **Calendar, Call log**, **Contacts**, **Home screen, Messages,** and **System settings** using this application.

• To perform a manual backup of your smart phone data.

- To schedule automatic backups of your smart phone data.
- To restore your smart phone data.

Back up your smart phone data

1. Insert to the memory card into the slot and check out the storage status.
2. Touch the **Apps** tab 📖, and then select **Backup** > **Backup** > **Storage Card** or **Internal Memory.**
3. Touch the **Add new** to enter a name for your backup file, and then select **Continue**.
4. Select the check box next to the item you want to back up, and then select **Continue** to back up.
5. When all selected files backed up, you will see the message '**Done**' and select **Continue** to finish backing up data.

Scheduling automatic backups

You can also enable automatic backups of the data on your smart phone according to your schedule setting. To do this, complete the following steps:

1. Insert to the memory card into the slot and check out the storage status.
2. Touch the **Apps** tab 📖, and then select **Backup** > **Schedule.**
3. On the **Scheduled Backup Location** screen, touch **Storage Card** or **Internal Memory**.
4. From the list, select how often you want to back up your device data and settings, and select **Continue**.
5. Select the check box next to the data you want to back up, and then select **Continue** to finish the schedule set.

Restoring smart phone data

To restore data that is in your on-board device memory, mass storage mode must be turned off.

> **NOTE:** All files that are stored on your smart phone are deleted before the backup file is restored.

1. Insert to the memory card into the slot and check out the storage status.
2. Touch the **Apps** tab 📖, and then select **Backup** > **Restore** > **Storage Card** or **Internal Memory**.
3. On the **Restore** screen, select a backup file that contains the data you want to restore.

4 Select the check box next to the item you want to restore, and then select **Continue** to restore to phone.

> **NOTE:** Please note that your phone data will be overwritten with the contents of your backup.

1 If the backup file is encrypted, type the password that you set to encrypt.
2 When all selected files restored, you will see the message '**Done**' and select **Yes** to restart the phone.

> **NOTE:**
> • While in Mass storage mode, this Backup Application cannot be functioned. Select Charge only option when the USB cable is connected.
> • You can set Enable encryption to encrypt your backup files for extra protection.

Press the **Menu** ▤ from the **Backup** screen, and select **Settings** > **Security** and select the check box. And after enabling encryption, To restore synchronised organizer data, you must have an activation password.

> **NOTE:**
> You can also enable automatic delete old backups and only keep the most recent backup. Press the **Menu** ▤ from the **Backup** screen, and select **Settings > Scheduled backup > Auto delete old backups** to select the number of scheduled backups to keep.

The web

Internet

Browser 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 forwards a page, to the page you connected to after the current one. This is the opposite of what happens when you press the **Back** key, which goes to the previous page.
- While holding down the icon, tilt the device toward body to zoom in or reverse to zoom out.
- Touch to add a new window.
- Touch to access bookmarks.

Using options

Press [icon] to view options.

Refresh – Update the current web page.

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

Go to Homepage – Allow you to go to a 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 as desktop.

Save for offline reading – Save current page to read it during offline.

Brightness – Modify viewing brightness for comfortable web browsing.

Settings – Displays Browser settings.

Exit – Exit from the menu list.

Settings

In the home screen, touch 🔲 > **Apps** tab > **Settings**.

WIRELESS & NETWORKS

Here, you can manage Wi-Fi and Bluetooth. You can also set up mobile networks and switch to airplane mode.

< Wi-Fi >

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

> **TIP! How to obtain the MAC address**
>
> To set up a connection in some wireless networks with MAC filters, you may need to enter the MAC address of your LG-E960 into the router.
> You can find the MAC address in the following user interface: Touch **Apps** tab > **Settings** > **Wi-Fi** > 🗏 > **Advanced** > **MAC address**.

< Bluetooth >

Turns on Bluetooth to connect to Bluetooth devices.

< Data usage >

Displays the data usage and set mobile data limit.

< Call >

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

< More >

Airplane mode – After switching to airplane mode, all wireless connections are disabled.

Wi-Fi Direct – You can turn on or off.

Portable Wi-Fi hotspot – You can configure the portable Wi-Fi hotspot settings.

NFC – Your LG-E960 is NFC-enabled mobile phone. NFC (Near Field Communication) is a wireless connectivity technology that enables two-way communication between electronic devices. It operates over a distance of a few centimeters. You can share your contents with a NFC tag or another device via simple touch with your device. If you touch a NFC tag with your device, it will display the tag contents on your device.

> **NOTE:** Be careful not to scratch or damage the inside of the battery cover as this is the NFC antenna.

To switch NFC on or off: From the home screen, touch and slide the

notification drawer down with your finger, then select the NFC icon to turn it on.

NOTE: When the Airplane mode is activated, NFC application can be used.

Using NFC: To use NFC, make sure your device is switched on and activate the NFC setting, if disabled.

Android Beam – You can beam a web page, a video, or other content from your screen to another device by bringing the devices together (typically back to back).

NOTE: Make sure both devices are unlocked, support Near Field Communication (NFC), and have both NFC and Android Beam™ turned on.

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

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** >

Sound profile – You can choose the Sound, Vibrate only or Silent.

Volumes – You can manage the volume of Phone Ringtone, Notification sound, Touch feedback & system, Music, video, games and other media, Alarms.

Phone ringtone – Allows you to set your default incoming call ringtone.

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

Ringtone with vibration – Vibration feedback for calls and notifications.

Quiet time – Set times to turn off all sounds except alarm and media.

Dial pad touch tones – Allows you to set the phone to play tones when using the dialpad to dial numbers.

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

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

Vibrate on touch – Allows you to set the vibration feedback for phone screen touch.

< Display >

Brightness – Adjust the screen brightness.

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

Screen timeout – Set the time for screen timeout.

Font type – Change the type of the display.

Font size – Change the size of the display font.

Front key light – Set the front key LED time.

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

< Home screen >

Set the **Theme**, **Animation**, **Screen effect** or **Wallpaper**. Select the option to set **Scroll wallpaper**, **Scroll screens circularly** and **Home backup & restore**.

< Lock screen >

Select screen lock – Set a screen lock type to secure your phone. Opens a set of screens that guide you through drawing a screen unlock pattern. You can set among of **None, Swipe, Face Unlock, Pattern, PIN, Password**.

When you turn on your phone or wake up the screen, you're asked to draw your unlock pattern to unlock the screen.

Wallpaper – You can select the wallpaper lock from Wallpapers or Gallery.

Owner info – Show owner info on lock screen.

< Gesture >

Move home screen items – Press and hold item and tilt device to move item within home screens or applications.

Tilt sensitivity – Test and adjust sensitivity of tilt sensor for home screen and applications.

Pending incoming calls – Flip device to mute incoming call.

Snooze or stop alarm – Flip device to snooze or stop alarm.

Pause video – Flip device to pause playing video.

Help – Help for gesture functions.

< Storage >

INTERNAL STORAGE – View the internal storage usage.

SD CARD – Check total available SD card space. Touch Unmount SD card for safe removal. Erase SD card if you want to delete all data from the SD card.

Settings

< Power saver >

Here, you can manage the battery and check the power saving items. Also, you can check the battery use.

< Apps >

You can view and manage the applications.

PERSONAL

< Accounts & sync >

Permits applications to synchronise data in the background, whether or not you are actively working in them. Deselecting this setting can save battery power and lowers (but does not eliminate) data usage.

< Location services >

Google's location service – If you select Google's location service, your phone determines your approximate location using Wi-Fi and mobile networks. When you select this option, you're asked whether you consent to allowing Google to use your location when providing these services.

GPS satellites – If you select GPS satellites, your phone determines your location to street level accuracy.

Location & Google search – If you select google use your location to improve search results and other services.

< Security >

Set up SIM card lock – Set up SIM card lock or change the SIM PIN.

Make passwords visible – Show password as you type.

Device administrators – View or deactivate device administrators.

Unknown sources – Default setting to install non-Market applications.

Trusted credentials – Display trusted CA certificates.

Install from storage – Choose to install encrypted certificates from your SD card.

Clear credentials – Remoce all certificates.

< Language & input >

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

< Backup & reset >

Change the settings for managing your settings and data.

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

Backup account – Set to back up your account.

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

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

SYSTEM

< **Date & time** >

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

< **Accessibility** >

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

NOTE: Requires additional plug-ins.

< **Connectivity** >

USB connection type – You can set the desired mode (**Charge only, Media sync (MTP), USB tethering, LG software** or **Camera (PTP)**).

Ask on connection – Ask USB connection mode when connecting to a computer.

Help – Help for connectivity.

On-Screen Phone settings – Displaying screen and controlling phone from PC are available through USB, Bluetooth or Wi-Fi connection.

PC Suite Wi-Fi connection – Check mark this to use **LG PC Suite** with Wi-Fi connection.

Please note that Wi-Fi network should be connected for LG PC Suite via Wi-Fi connection from the WIRELESS & NETWORKS.

< **About phone** >

View legal information and check phone status and software version.

Phone software update

LG Mobile phone software update from the Internet

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

This feature allows you to update the firmware on your phone to a newer version conveniently from the Internet without needing to visit a service centre. This feature will only be available if and when LG makes a newer firmware version available for your device.

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

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

DivX HD **DIVX**

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. 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 DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

LG On-Screen Phone

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

On-Screen Phone icons

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

Changes the On-Screen Phone preferences.

Exits the On-Screen Phone programme.

Maximises the On-Screen Phone window.

Minimize the On-Screen Phone window.

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 files from your mobile phone (e.g. photos, videos, music and Polaris Office files) to your PC. Simply right-click on the file which you want to send to PC and click on "Save to 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 files sent are stored in internal SD card.
- Real-time event notifications: prompts a pop-up to inform you of any incoming calls or text/multimedia messages.

How to install On-Screen Phone on your PC

1 Visit LG Home (www.lg.com) and select a country of your choice.

2 Go to **Support** > **Mobile Phone Support** > Select the Model (LG-E960) > Click **OSP** (On-Screen Phone) to download. You can install the On-Screen Phone on your PC.

Accessories

These accessories are available for use with the LG-E960. **(Items described below may be optional.)**

Travel adaptor

Battery

Stereo headset

Data cable
Connect your LG-E960 and PC.

User Guide
Learn more about your LG-E960.

LG Tag+

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 that the SIM card is correctly inserted.
No network connection/ Losing network	Signal is weak or you're outside the carrier network.	Move towards a window or into an open area. Check the network operator coverage map.
	Operator applied new services.	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.	If you forget the code, contact your service provider.
	The two codes you have entered do not match.	
Any application cannot be set	Not supported by service provider or registration required.	Contact your service provider.
Calls not available	Dialling error	New network not authorised.
	New SIM card inserted.	Check for new restrictions.
	Pre-paid charge limit reached.	Contact service provider or reset limit with PIN2.
Phone cannot be switched on	On/Off key pressed too briefly.	Press the On/Off key down for at least two seconds.
	Battery is not charged.	Charge battery. Check charging indicator on the display.
	Battery contacts are dirty.	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 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 receive / send 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 turn 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 that 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.

Troubleshooting

Message	Possible causes	Possible corrective measures
Hang up or freeze	Intermittent software problem	Remove the battery, insert it again and switch on the phone.
		Try to perform a software update via the website.