

**Sony Ericsson**

Important information

## Sony Ericsson Consumer Web site

At [www.sonyericsson.com/support](http://www.sonyericsson.com/support) there is a support section where help and tips are only a few clicks away. Here you will find the latest computer software updates and tips on how to use your product more efficiently.

## Service and support

You have access to a portfolio of exclusive service advantages such as:

- Global and local Web sites providing support.
- A global network of Contact Centers.
- An extensive network of Sony Ericsson service partners.
- A warranty period. Learn more about the warranty conditions in the *Limited warranty* section.

At [www.sonyericsson.com/support](http://www.sonyericsson.com/support), you can find the latest support tools and information. For operator-specific services and features, please contact your network operator.

You can also contact our Contact Centers. If your country/region is not represented in the list below, please contact your local dealer. (Calls are charged according to national rates, including local taxes, unless the phone number is a toll-free number.)

If your product needs service, please contact the dealer from whom it was purchased, or one of our service partners. For warranty claims, save proof of purchase.

## Guidelines for Safe and Efficient Use

Please follow these guidelines. Failure to do so might entail a potential health risk or product malfunction. If in doubt as to its proper function, have the product checked by a certified service partner before charging or using it.



## Recommendations for care and safe use of our products

- Handle with care and keep in a clean and dust-free place.
- **Warning!** May explode if disposed of in fire.
- Do not expose to liquid or moisture or excess humidity.

- For optimum performance, the product should not be operated in temperatures below  $-10^{\circ}\text{C}$ ( $+14^{\circ}\text{F}$ ) or above  $+45^{\circ}\text{C}$ ( $+113^{\circ}\text{F}$ ). Do not expose the battery to temperatures above  $+60^{\circ}\text{C}$ ( $+140^{\circ}\text{F}$ ).



- Do not expose to flames or lit tobacco products.
- Do not drop, throw or try to bend the product.
- Do not paint or attempt to disassemble or modify the product. Only Sony Ericsson authorised personnel should perform service.
- Consult with authorised medical staff and the instructions of the medical device manufacturer before using the product near pacemakers or other medical devices or equipment.
- Discontinue use of electronic devices, or disable the radio transmitting functionality of the device, where required or requested to do so.
- Do not use where a potentially explosive atmosphere exists.
- Do not place the product, or install wireless equipment, in the area above an air bag in a car.
- **Caution:** Cracked or broken displays may create sharp edges or splinters that could be harmful upon contact.
- Do not use the Bluetooth Headset in positions where it is uncomfortable or will be subject to pressure.



### Children

**Warning!** Keep out of the reach of children. Do not allow children to play with mobile phones or accessories. They could hurt themselves or others. Products may contain small parts that could become detached and create a choking hazard.



### Power supply (Charger)

Connect the charger to power sources as marked on the product. Do not use outdoors or in damp areas. Do not alter or subject the cord to damage or stress. Unplug the unit before cleaning it. Never alter the plug. If it does not fit into the outlet, have a proper outlet installed by an electrician. When a power supply is connected there is a small drain of power. To avoid this small energy waste, disconnect the power supply when the product is fully charged.

Use of charging devices that are not Sony Ericsson branded may pose increased safety risks.

### **Battery**

New or idle batteries can have short-term reduced capacity. Fully charge the battery before initial use. Use for the intended purpose only. Charge the battery in temperatures between +5°C(+41°F) and +45°C(+113°F). Do not put the battery into your mouth. Do not let the battery contacts touch another metal object. Turn off the product before removing the battery. Performance depends on temperatures, signal strength, usage patterns, features selected and voice or data transmissions. Only Sony Ericsson service partners should remove or replace built-in batteries. Use of batteries that are not Sony Ericsson branded may pose increased safety risks. Replace the battery only with another Sony Ericsson battery that has been qualified with the product per the standard IEEE-1725. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.

### **Personal medical devices**

Mobile phones may affect implanted medical equipment. Reduce risk of interference by keeping a minimum distance of 15 cm(6 inches) between the phone and the device. Use the phone at your right ear. Do not carry the phone in your breast pocket. Turn off the phone if you suspect interference. For all medical devices, consult a physician and the manufacturer.

### **Driving**

Some vehicle manufacturers forbid the use of phones in their vehicles unless a handsfree kit with an external antenna supports the installation. Check with the vehicle manufacturer's representative to be sure that the mobile phone or Bluetooth handsfree will not affect the electronic systems in the vehicle. Full attention should be given to driving at all times and local laws and regulations restricting the use of wireless devices while driving must be observed.

### **GPS/Location based functions**

Some products provide GPS/Location based functions. Location determining functionality is provided “As is” and “With all faults”. Sony Ericsson does not make any representation or warranty as to the accuracy of such location information.

Use of location-based information by the device may not be uninterrupted or error free and may additionally be dependent on network service availability. Please note that functionality may be reduced or prevented in certain environments such as building interiors or areas adjacent to buildings.

Caution: Do not use GPS functionality in a manner which causes distraction from driving.

### **Emergency calls**

Calls cannot be guaranteed under all conditions. Never rely solely upon mobile phones for essential communication. Calls may not be possible in all areas, on all networks, or when certain network services and/or phone features are used.

### **Antenna**

Use of antenna devices not marketed by Sony Ericsson could damage the phone, reduce performance, and produce SAR levels above the established limits. Do not cover the antenna with your hand as this affects call quality, power levels and can shorten talk and standby times.

### **Radio Frequency (RF) exposure and Specific Absorption Rate (SAR)**

When the phone or Bluetooth handsfree is turned on, it emits low levels of radio frequency energy. International safety guidelines have been developed through periodic and thorough evaluation of scientific studies. These guidelines establish permitted levels of radio wave exposure. The guidelines include a safety margin designed to assure the safety of all persons and to account for any variations in measurements.

Specific Absorption Rate (SAR) is used to measure radio frequency energy absorbed by the body when using a mobile

phone. The SAR value is determined at the highest certified power level in laboratory conditions, but because the phone is designed to use the minimum power necessary to access the chosen network, the actual SAR level can be well below this value. There is no proof of difference in safety based on difference in SAR value.

Products with radio transmitters sold in the US must be certified by the Federal Communications Commission (FCC). When required, tests are performed when the phone is placed at the ear and when worn on the body. For body-worn operation, the phone has been tested when positioned a minimum of 15 mm from the body without any metal parts in the vicinity of the phone or when properly used with an appropriate Sony Ericsson accessory and worn on the body.

For more information about SAR and radio frequency exposure, go to: [www.sonyericsson.com/health](http://www.sonyericsson.com/health).

### **Flight mode**

Bluetooth and WLAN functionality, if available in the device, can be enabled in Flight mode but may be prohibited onboard aircraft or in other areas where radio transmissions are prohibited. In such environments, please seek proper authorisation before enabling Bluetooth or WLAN functionality even in Flight mode.

### **Malware**

Malware (short for malicious software) is software that can harm the mobile phone or other computers. Malware or harmful applications can include viruses, worms, spyware, and other unwanted programs. While the device does employ security measures to resist such efforts, Sony Ericsson does not warrant or represent that the device will be impervious to the introduction of malware. You can however reduce the risk of malware attacks by using care when downloading content or accepting applications, refraining from opening or responding to messages from unknown sources, using trustworthy services to access the Internet, and only downloading content to the mobile phone from known, reliable sources.

## Accessories

Use only Sony Ericsson branded original accessories and certified service partners. Sony Ericsson does not test third-party accessories. Accessories may influence RF exposure, radio performance, loudness, electric safety and other areas. Third-party accessories and parts may pose a risk to your health or safety or decrease performance.

## Accessible Solutions/Special Needs

In the US, compatible Sony Ericsson phones may offer compatibility with TTY terminals (with use of necessary accessory). For more information call the Sony Ericsson Special Needs Center on 877 878 1996 (TTY) or 877 207 2056 (voice), or go to [www.sonyericsson-snc.com](http://www.sonyericsson-snc.com).

## Disposal of old electrical and electronic equipment

Electronic equipment and batteries should not be included as household waste but should be left at an appropriate collection point for recycling. This helps prevent potential negative consequences for the environment and human health. Check local regulations by contacting your local city office, your household waste disposal service, the shop where you purchased the product or calling a Sony Ericsson Contact Center. Do not attempt to remove internal batteries. Internal batteries shall be removed only by a waste treatment facility or trained service professional.



## Disposing of the battery

Check local regulations or call a Sony Ericsson Contact Center for information. Never use municipal waste.



## Memory card

If the product comes complete with a removable memory card, it is generally compatible with the handset purchased but may not be compatible with other devices or the capabilities of their memory cards. Check other devices for compatibility before purchase or use. If the product is equipped with a memory card reader, check memory card compatibility before purchase or use.

Memory cards are generally formatted prior to shipping. To reformat the memory card, use a compatible device. Do not use the standard operating system format when formatting the memory card on a PC. For details, refer to the operating instructions of the device or contact customer support.

### **Warning!**

If the device requires an adapter for insertion into the handset or another device, do not insert the card directly without the required adapter.

### **Precautions on memory card use**

- Do not expose the memory card to moisture.
- Do not touch terminal connections with your hand or any metal object.
- Do not strike, bend, or drop the memory card.
- Do not attempt to disassemble or modify the memory card.
- Do not use or store the memory card in humid or corrosive locations or in excessive heat such as a closed car in summer, in direct sunlight or near a heater, etc.
- Do not press or bend the end of the memory card adapter with excessive force.
- Do not let dirt, dust, or foreign objects get into the insert port of any memory card adapter.
- Check you have inserted the memory card correctly.
- Insert the memory card as far as it will go into any memory card adapter needed. The memory card may not operate properly unless fully inserted.
- We recommend that you make a backup copy of important data. We are not responsible for any loss or damage to content you store on the memory card.
- Recorded data may be damaged or lost when you remove the memory card or memory card adapter, turn off the power while formatting, reading or writing data, or use the memory card in locations subject to static electricity or high electrical field emissions.

### **Protection of personal information**

Erase personal data before disposing of the product. To delete data, perform a master reset. Deleting data from the phone memory does not ensure that it cannot be recovered.

Sony Ericsson does not warrant against recovery of information and does not assume responsibility for disclosure of any information even after a master reset.

### **Loudness warning!**

Avoid volume levels that may be harmful to your hearing.

## **End User Licence Agreement**

Software delivered with this device and its media is owned by Sony Ericsson Mobile Communications AB, and/or its affiliated companies and its suppliers and licensors.

Sony Ericsson grants you a non-exclusive limited licence to use the Software solely in conjunction with the Device on which it is installed or delivered. Ownership of the Software is not sold, transferred or otherwise conveyed.

Do not use any means to discover the source code or any component of the Software, reproduce and distribute the Software, or modify the Software. You are entitled to transfer rights and obligations to the Software to a third party, solely together with the Device with which you received the Software, provided the third party agrees in writing to be bound by the terms of this Licence.

This licence exists throughout the useful life of this Device. It can be terminated by transferring your rights to the Device to a third party in writing.

Failure to comply with any of these terms and conditions will terminate the licence immediately.

Sony Ericsson and its third party suppliers and licensors retain all rights, title and interest in and to the Software. To the extent that the Software contains material or code of a third party, such third parties shall be beneficiaries of these terms.

This licence is governed by the laws of Sweden. When applicable, the foregoing applies to statutory consumer rights.

In the event Software accompanying or provided in conjunction with your device is provided with additional terms and conditions, such provisions shall also govern your possession and usage of the Software.

## **Export regulations**

Export regulations: Goods delivered under this Agreement may be the subject to import and export regulations of the European Union, the United States and other countries. Purchaser will comply with these applicable laws and regulations and will obtain and maintain any export and import license required for the delivery of goods to Purchaser under this Agreement. Without limiting the foregoing, and as an example, Purchaser will not knowingly export or re-export goods to destinations identified pursuant to Articles in Chapter II of European Council Regulation (EC) 428/2009 and specifically, and without limitation, Purchaser will also comply with U.S. government Export Administration Regulations ("EAR", 15 C.F.R. §§ 730-774, <http://www.bis.doc.gov/>) administered by Department of Commerce, Bureau of Industry and Security and economic sanctions regulations (30 C.F.R. §§ 500 et. seq., <http://www.treas.gov/offices/enforcement/ofac/>) administered by the U.S. Department of Treasury, Office of Foreign Assets Control.

## **Limited Warranty**

Sony Ericsson Mobile Communications AB, SE-221 88 Lund, Sweden, (Sony Ericsson) or its local affiliated company, provides this Limited Warranty for your mobile phone, original accessory delivered with your mobile phone, and/or your mobile computing product (hereinafter referred to as "Product").

Should your Product need warranty service, please return it to the dealer from whom it was purchased, or contact your local

Sony Ericsson Contact Center (national rates may apply) or visit [www.sonyericsson.com](http://www.sonyericsson.com) to get further information.

### **Our warranty**

Subject to the conditions of this Limited Warranty, Sony Ericsson warrants this Product to be free from defects in design, material and workmanship at the time of its original purchase by a consumer. This Limited Warranty will last for a period of one (1) year as from the original date of purchase of the Product.

### **What we will do**

If, during the warranty period, this Product fails to operate under normal use and service, due to defects in design, materials or workmanship, Sony Ericsson authorised distributors or service partners, in the country/region\* where you purchased the Product, will, at their option, either repair or replace the Product in accordance with the terms and conditions stipulated herein.

Sony Ericsson and its service partners reserve the right to charge a handling fee if a returned Product is found not to be under warranty according to the conditions below.

Please note that some of your personal settings, downloads and other information may be lost when your Sony Ericsson Product is repaired or replaced. At present, Sony Ericsson may be prevented by applicable law, other regulation or technical restrictions from making a backup copy of certain downloads. Sony Ericsson does not take any responsibility for any lost information of any kind and will not reimburse you for any such loss. You should always make backup copies of all the information stored on your Sony Ericsson Product such as downloads, calendar and contacts before handing in your Sony Ericsson Product for repair or replacement.

### **Conditions**

1. This Limited Warranty is valid only if the original proof of purchase for this Product issued by a Sony Ericsson authorised dealer specifying the date of purchase and serial number\*\*, is presented with the Product to be repaired or replaced.  
Sony Ericsson reserves the right to refuse warranty service if this

information has been removed or changed after the original purchase of the Product from the dealer.

2. If Sony Ericsson repairs or replaces the Product, the repair for the defect concerned, or the replaced Product shall be warranted for the remaining time of the original warranty period or for ninety (90) days from the date of repair, whichever is longer. Repair or replacement may involve the use of functionally equivalent reconditioned units. Replaced parts or components will become the property of Sony Ericsson.
3. This warranty does not cover any failure of the Product due to normal wear and tear, or due to misuse, including but not limited to use in other than the normal and customary manner, in accordance with the Sony Ericsson instructions for use and maintenance of the Product. Nor does this warranty cover any failure of the Product due to accident, software or hardware modification or adjustment, acts of God or damage resulting from liquid.

A rechargeable battery can be charged and discharged more than a hundred times. However, it will eventually wear out – this is not a defect and corresponds to normal wear and tear. When the talk-time or standby time is noticeably shorter, it is time to replace the battery. Sony Ericsson recommends that you use only batteries and chargers approved by Sony Ericsson.

Minor variations in display brightness and colour may occur between phones. There may be tiny bright or dark dots on the display. These are called defective pixels and occur when individual dots have malfunctioned and can not be adjusted. Two defective pixels are deemed acceptable.

Minor variations in camera image appearance may occur between phones. This is nothing uncommon and is not regarded as a defective camera module.

4. Since the cellular system on which the Product is to operate is provided by a carrier independent from Sony Ericsson, Sony Ericsson will not be responsible for the operation, availability, coverage, services or range of that system.

5. This warranty does not cover Product failures caused by installations, modifications, or repair or opening of the Product performed by a non-Sony Ericsson authorised person.
6. The warranty does not cover Product failures which have been caused by use of accessories or other peripheral devices which are not Sony Ericsson branded original accessories intended for use with the Product.
7. Tampering with any of the seals on the Product will void the warranty.
8. THERE ARE NO EXPRESS WARRANTIES, WHETHER WRITTEN OR ORAL, OTHER THAN THIS PRINTED LIMITED WARRANTY. ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL SONY ERICSSON OR ITS LICENSORS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS OR COMMERCIAL LOSS TO THE FULL EXTENT THOSE DAMAGES CAN BE DISCLAIMED BY LAW.

Some countries/states do not allow the exclusion or limitation of incidental or consequential damages, or limitation of the duration of implied warranties, so the preceding limitations or exclusions may not apply to you.

The warranty provided does not affect the consumer's statutory rights under applicable legislation in force, nor the consumer's rights against the dealer arising from their sales / purchase contract.

**\*Geographical scope of the warranty**

If you have purchased your Product in a country member of the European Economic Area (EEA) or in Switzerland or the Republic of Turkey, and such Product was intended for sale in the EEA or in Switzerland or in Turkey, you can have your Product serviced in any EEA country or in Switzerland or in Turkey, under the warranty conditions prevailing in the country in which you require servicing, provided that an identical Product is sold in such country by an

authorised Sony Ericsson distributor. To find out if your Product is sold in the country you are in, please call the local Sony Ericsson Contact Center. Please observe that certain services may not be available outside the country of original purchase, for example, due to the fact that your Product may have an interior or exterior which is different from equivalent models sold in other countries. Please note in addition that it may sometimes not be possible to repair SIM-locked Products.

\*\* In some countries/regions additional information (such as a valid warranty card) may be requested.

## **Trademarks and acknowledgements**

The Liquid Identity logo and Xperia are trademarks or registered trademarks of Sony Ericsson Mobile Communications AB. Sony is a trademark or a registered trademark of Sony Corporation.

Ericsson is a trademark or registered trademark of Telefonaktiebolaget LM Ericsson.

Bluetooth is a trademark or a registered trademark of Bluetooth SIG Inc. and any use of such mark by Sony Ericsson is under license.

Other product and company names mentioned herein may be the trademarks of their respective owners.

Any rights not expressly granted herein are reserved.

## **US Safety Guidelines**

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 (i.e., at the ear and worn on the body) as required by the FCC for each model. Body worn measurements are made while the phone is in use and worn on the body with an Ericsson or Sony Ericsson accessory. The design and composition of an accessory can affect the body worn Specific Absorption Rate (SAR) levels for the phone.

Sony Ericsson has not measured, and makes no representation about, the body worn SAR levels when the phone is used with non-Ericsson or non-Sony Ericsson accessories.

## **Consumer Update on Wireless Phones Supplied by the U.S. Food and Drug Administration (FDA) - Center for Devices and Radiological Health**

### **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 radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by 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.

### **What is FDA's role concerning the safety of wireless phones?**

Under the law, 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 radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, 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 do not justify FDA regulatory actions, 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.

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
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well. 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. FCC relies on FDA and other health agencies for safety questions about wireless phones. 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.

## **What kinds of phones are the subject of this update?**

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of 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.

## **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 radiofrequency energy (RF) 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 don't 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.

### **Enter the title of your concept here.**

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 10 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.

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

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 radiofrequency energy

(RF). FDA has been a leading participant in the World Health Organization International Electromagnetic 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. FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to 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.

## **How can I find out how much radiofrequency 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 radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones 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.

## **What has FDA done to measure the radiofrequency energy coming from wireless phones?**

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) 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.

## **What steps can I take to reduce my exposure to radiofrequency 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 radiofrequency energy (RF). 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.

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.

## **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 radiofrequency energy (RF), 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.

## **What about wireless phone interference with medical equipment?**

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic 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 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.

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.

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

## Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones (<http://www.fda.gov/cdrh/phones/index.html>)
- Federal Communications Commission (FCC) RFSafety 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.nrpb.org.uk/>)

## Hearing Aid Compatibility

Your phone is designed for Hearing Aid Compatibility (HAC) and can be used with hearing aids.

 This product has not been tested using WiFi.

## Hearing Aid Compatibility and New Technologies

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 about its return and exchange policies and for information on hearing aid compatibility.

## Hearing Aid Compatibility Rating

This model handset was designed to comply with the requirements set forth in Section 20.19 of the Federal Communication

Commission's (FCC) rules governing hearing aid compatibility (HAC), for the reduction of RF interference to hearing aids. The Microphone (M) rating is defined and labeled on the handset box. Devices meeting HAC compliance must have a minimum M3 rating or above as defined by the FCC in accordance with the latest ANSI Standard C63.19-2007. The (M) rating refers to lower RF emission levels of the handset. Some hearing aids are also provided an (M) rating, and are more immune than others to interference. To determine the (M) rating of your hearing aid, please contact your hearing health professional. More information about digital wireless devices and hearing aid compatibility can be found at [www.sonyericsson-snc.com](http://www.sonyericsson-snc.com).

## **Important Information**

### **United States & Canada**

THIS PHONE MODEL HAS BEEN CERTIFIED IN COMPLIANCE WITH THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

The Series mobile phones have been designed to comply with applicable safety requirements for exposure to radio waves. Your wireless phone is a radio transmitter and receiver. It is designed to not exceed the limits\* of exposure to radio frequency (RF) energy set by governmental authorities. These limits establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by international scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a safety margin designed to assure the safety of all individuals, regardless of age and health.

The radio wave exposure guidelines employ a unit of measurement known as the Specific Absorption Rate (SAR). Tests for SAR are conducted using standardized methods with the phone transmitting at its highest certified power level in all used frequency bands. While there may be differences between the SAR levels of various phone models, they are all designed to meet the relevant guidelines for exposure to radio waves. For more

information on SAR, please refer to the safe and efficient use chapter in the User Guide.

The highest SAR value as reported to the authorities for this phone model when tested for use by the ear is 0.81 W/kg\*, and when worn on the body is 0.35 W/kg\* for speech and 1.17 W/kg\* for data calls. Body worn measurements are made while the phone is in use and worn on the body with a Sony Ericsson accessory supplied with or designated for use with this phone. It is therefore recommended that only Ericsson and Sony Ericsson original accessories be used in conjunction with Sony Ericsson phones.

\*\*Before a phone model is available for sale to the public in the US, it must be tested and certified by the Federal Communications Commission (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 (i.e., by the ear and worn on the body) as required by the FCC for each model. The FCC has granted an Equipment Authorization for this phone model with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. While there may be differences between the SAR levels of various phones, all mobile phones granted an FCC equipment authorization meet the government requirement for safe exposure. SAR information on this phone model is on file at the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID PY7A7880001. Additional information on SAR can be found on the Cellular Telecommunications & Internet Association (CTIA) website at <http://www.phonefacts.net>.

*\* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a margin of safety to give additional protection for the public and to account for any variations in measurements.*

*\*\*This paragraph is only applicable to authorities and customers in the United States.*

## FCC Statement

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2)



This device must accept any interference received, including interference that may cause undesired operation.

Any change or modification not expressly approved by Sony Ericsson may void the user's authority to operate the equipment.

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

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

## Industry Canada Statement

This device complies with RSS-210 of Industry Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Declaration of Conformity

We, **Sony Ericsson Mobile Communications AB** of

Nya Vattentorget

SE-221 88 Lund, Sweden

declare under our sole responsibility that our product

**Sony Ericsson type** AAD-3880098-BV

and in combination with our accessories, to which this declaration relates is in conformity with the appropriate standards EN 301 511:V9.0.2, EN 301 908-1:V3.2.1, EN 301 908-2:V3.2.1, EN 300 328:V1.7.1, EN 300 440-2:V1.3.1, EN 301 489-7:V1.3.1, EN 301 489-17:V2.1.1, EN 301 489-24:V1.4.1, EN 301 489-3:V1.4.1 and EN 60 950-1:2006+A11:2009 following the provisions of, Radio Equipment and Telecommunication Terminal Equipment directive **1999/5/EC**.

Lund, December 2010

**CE 0682** 

---

Dan Redin,  
*Corporate Vice President, Head of Development*  
We fulfil the requirements of the R&TTE Directive (1999/5/EC).

## Support

Anguilla	1-800-080-9518 (Toll Free)	questions.CO@support.sonyericsson.com
Antigua and Barbuda	1-800-081-9518 (Toll Free)	questions.CO@support.sonyericsson.com
Argentina	0800-333-7427 (número gratuito)	questions.CO@support.sonyericsson.com
Australia	1300 650-050 (Toll Free)	questions.AU@support.sonyericsson.com
The Bahamas	1-800-205-6062 (Toll Free)	questions.CO@support.sonyericsson.com
Barbados	1-800-082-9518 (Toll Free)	questions.CO@support.sonyericsson.com
Belgique/ België	02-0745 1611	questions.BE@support.sonyericsson.com
Belize	AN 815, PIN 5597 (Toll Free)	questions.CO@support.sonyericsson.com
Bermuda	1-800-083-9518 (Toll Free)	questions.CO@support.sonyericsson.com
Bolivia	800-100-542 (número gratuito)	questions.CO@support.sonyericsson.com
Brasil	4001-0444 (Capitais e regiões metropolitanas) 0800 884 0444 (Demais regiões)	questions.BR@support.sonyericsson.com
Canada	1 866 766 9374 (Toll Free / sans frais)	questions.CA@support.sonyericsson.com
Cayman Islands	1-800-084-9518 (Toll Free)	questions.CO@support.sonyericsson.com

<b>Central and Southern Africa</b>	+27 11 506 0123	questions.CF@support.sonyericsson.com
Česká republika	844 550 055	questions.CZ@support.sonyericsson.com
Chile	800-646-425 (número gratuito)	questions.CO@support.sonyericsson.com
Colombia	01800-0966-080 (número gratuito)	questions.CO@support.sonyericsson.com
Costa Rica	0 800 011 0400 (número gratuito)	questions.CO@support.sonyericsson.com
Danmark	3331 2828	questions.DK@support.sonyericsson.com
Deutschland	0180 534 2020 (ortsübliche Gebühren)	questions.DE@support.sonyericsson.com
Dominica	1-800-085-9518 (Toll Free)	questions.CO@support.sonyericsson.com
Ecuador	1-800-0102-50 (número gratuito)	questions.CO@support.sonyericsson.com
Eesti	06 032 032	questions.EE@support.sonyericsson.com
Egypt/مصر	16727	questions.EG@support.sonyericsson.com
Ελλάδα	801 11 810 810 +30 210 899 19 19 (από κινητό τηλέφωνο)	questions.GR@support.sonyericsson.com
El Salvador	800-6323 (número gratuito)	questions.CO@support.sonyericsson.com
España	902 180 576 (tarifa local)	questions.ES@support.sonyericsson.com

<b>France</b>	09 69 32 21 21 09 69 32 21 22 (Xperia™ uniquement)	questions.FR@support.sonyericsson.com
<b>Guatemala</b>	1-800-300-0057 (número gratuito)	questions.CO@support.sonyericsson.com
<b>Haïti/Ayiti</b>	AN 193, PIN 5598 (numéro gratuit / nimewo gratis)	questions.CO@support.sonyericsson.com
<b>Honduras</b>	AN 8000122, PIN 5599 (número gratuito)	questions.CO@support.sonyericsson.com
<b>Hong Kong/香港</b>	+852 8203 8863	questions.HK@support.sonyericsson.com
<b>Hrvatska</b>	062 000 000	questions.HR@support.sonyericsson.com
<b>India/भारत</b>	1800 11 1800 (Toll Free) +91 (011) 39011111	questions.IN@support.sonyericsson.com
<b>Indonesia</b>	021 2701388	questions.ID@support.sonyericsson.com
<b>Ireland</b>	1850 545 888 (Local rate)	questions.IE@support.sonyericsson.com
<b>Italia</b>	06 48895206 (tariffa locale)	questions.IT@support.sonyericsson.com
<b>Jamaica</b>	1-800-442-3471 (Toll Free)	questions.CO@support.sonyericsson.com
<b>Κύπρος/Kıbrıs</b>	0800 90 909	questions.CY@support.sonyericsson.com
<b>Latvija</b>	67 21 43 01	questions.LV@support.sonyericsson.com
<b>Lietuva</b>	8 700 55030	questions.LT@support.sonyericsson.com
<b>Magyarország</b>	01 880 47 47	questions.HU@support.sonyericsson.com
<b>Malaysia</b>	1800-88-9900 (Toll Free / bebas tol)	questions.MY@support.sonyericsson.com

Maroc/المغرب	+212 2 2958 344	questions.MA@support.sonyericsson.com
México	0 1800 000 4722 (número gratuito)	questions.MX@support.sonyericsson.com
Nederland	0900 8998318	questions.NL@support.sonyericsson.com
Nederlandse Antillen	001-866-509-8660 (gratis nummer)	questions.CO@support.sonyericsson.com
New Zealand	0800-100-150 (Toll Free)	questions.NZ@support.sonyericsson.com
Nicaragua	AN 1800-0166, PIN 5600 (número gratuito)	questions.CO@support.sonyericsson.com
Norge	815 00 840 (lokaltakst)	questions.NO@support.sonyericsson.com
Österreich	0810 200 245	questions.AT@support.sonyericsson.com
Pakistan/پاکستان	021 - 111 22 55 73	questions.PK@support.sonyericsson.com
Panamá	00800-787-0009 (número gratuito)	questions.CO@support.sonyericsson.com
Paraguay	009 800 54 20032 (número gratuito)	questions.CO@support.sonyericsson.com
Perú	0800-532-38 (número gratuito)	questions.CO@support.sonyericsson.com
Philippines/ Pilipinas	+63 2 7891860	questions.PH@support.sonyericsson.com
Polska	+48 22 22 77 444	questions.PL@support.sonyericsson.com
Portugal	808 204 466 (chamada local)	questions.PT@support.sonyericsson.com
República Dominicana	1-800-751-3370 (número gratuito)	questions.CO@support.sonyericsson.com
România	+40 21 401 0401	questions.RO@support.sonyericsson.com
Saint Kitts and Nevis	1-800-087-9518 (Toll Free)	questions.CO@support.sonyericsson.com

<b>Saint Vincent and the Grenadines</b>	1-800-088-9518 (Toll Free)	questions.CO@support.sonyericsson.com
<b>Schweiz/ Suisse/ Svizzera</b>	0848 824 040	questions.CH@support.sonyericsson.com
<b>Singapore</b>	+65 6744 0733	questions.SG@support.sonyericsson.com
<b>Slovenia</b>	01 600 5000	questions.SI@support.sonyericsson.com
<b>Slovensko</b>	02 5443 6443	questions.SK@support.sonyericsson.com
<b>South Africa</b>	0861 632222	questions.ZA@support.sonyericsson.com
<b>South Korea/대한민국</b>	(+82) 1588 4170	questions.KO@support.sonyericsson.com
<b>Suomi</b>	09 299 2000	questions.FI@support.sonyericsson.com
<b>Sverige</b>	013 24 45 00 (lokal taxa)	questions.SE@support.sonyericsson.com
<b>Trinidad and Tobago</b>	1-800-080-9521 (Toll Free)	questions.CO@support.sonyericsson.com
<b>Türkiye</b>	+90 212 473 77 77	questions.TR@support.sonyericsson.com
<b>United Kingdom</b>	08705 237 237 (Local rate)	questions.GB@support.sonyericsson.com
<b>United States</b>	1 866 766 9374	questions.US@support.sonyericsson.com
<b>Uruguay</b>	000-401-787-013 (número gratuito)	questions.CO@support.sonyericsson.com
<b>Venezuela</b>	0-800-1-00-2250 (número gratuito)	questions.CO@support.sonyericsson.com
<b>Việt Nam</b>	1900 1525 (miễn phí)	questions.VN@support.sonyericsson.com
<b>Беларусь</b>	8 82 00 361 0001	questions.BY@support.sonyericsson.com
<b>България</b>	0800 1 8778	questions.BG@support.sonyericsson.com
<b>Россия</b>	+7 (495) 7870986	questions.RU@support.sonyericsson.com

Україна	(+380) 44 590 1515	questions.UA@support.sonyericsson.com
الأردن	+971 4 3919 880	questions.JO@support.sonyericsson.com
الإمارات العربية المتحدة	+971 4 3919 880 (UAE)	questions.AE@support.sonyericsson.com
الكويت	+971 4 3919 880	questions.KW@support.sonyericsson.com
المملكة العربية السعودية	800-8200-727	questions.SA@support.sonyericsson.com
中国	+86 400 810 0000	questions.CN@support.sonyericsson.com
台灣	+886 2 25625511	questions.TW@support.sonyericsson.com
ไทย	02 2483 030	questions.TH@support.sonyericsson.com

[www.sonyericsson.com](http://www.sonyericsson.com)



Sony Ericsson Mobile Communications AB  
SE-221 88 Lund, Sweden

1222-9266.3