



6802979C37-B



## **HC700-G & HCe700-G Handheld Computer**

### **Product Safety and RF Exposure for Handheld Computer with Radios.**

**BEFORE USING THIS DEVICE WITH RADIO, READ THIS BOOKLET WHICH CONTAINS IMPORTANT OPERATING INSTRUCTIONS FOR SAFE USAGE AND RF ENERGY AWARENESS AND CONTROL INFORMATION AND OPERATIONAL INSTRUCTIONS FOR COMPLIANCE WITH RF ENERGY EXPOSURE LIMITS IN APPLICABLE NATIONAL AND INTERNATIONAL STANDARDS. ALSO READ THE OPERATIONAL INSTRUCTIONS FOR SAFE USAGE.**

#### **RF Energy Exposure**

**This handheld computer is intended for use in general population/uncontrolled environment.**

This handheld computer uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. It uses radio frequency (RF) energy or radio waves to send and receive calls. RF energy is one form of electromagnetic energy. Other forms include, but are not limited to, sunlight and x-rays. RF energy, however, should not be confused with these other forms of electromagnetic energy, which when used improperly, can cause biological damage. Very high levels of x-rays, for example, can damage tissues and genetic material. Experts in science, engineering, medicine, health, and industry work with organizations to develop standards for safe exposure to RF energy. These standards provide recommended levels of RF exposure for both workers and the general public. These recommended RF exposure levels include substantial margins of protection. All Motorola radio products are designed, manufactured, and tested to ensure they meet government-established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of products with radios.

These instructions are important because they inform users about RF energy exposure and provide simple procedures on how to control it.

Please refer to the following websites for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure limits:

<http://www.fcc.gov/oet/rfsafety/rf-faqs.html>

<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>

### **Compliance with RF Exposure Standards**

Your Motorola handheld computer is designed and tested to comply with a number of national and International standards and guidelines (listed below) for human exposure to radio frequency electromagnetic energy.

**This handheld computer complies with the IEEE (FCC) and ICNIRP exposure limits for general population/uncontrolled environments.**

#### **Your Motorola handheld computer complies with the following RF energy exposure standards and guidelines:**

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR part 2 sub-part J
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition
- International Commission on Non- Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Radio frequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz, 1999
- Australian Communications Authority Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard, 2003
- ANATEL ANNEX to Resolution No. 303 of July 2, 2002 "Regulation of limitation of exposure to electrical, magnetic and electromagnetic fields in the radio frequency range between 9 KHz and 300 GHz" and "Attachment to resolution # 303 from July 2, 2002"

#### **RF Exposure Operating Instructions**

To control your exposure and ensure compliance with the general population/uncontrolled environment exposure limits, always adhere to the following procedures:

### **Operating Instructions**

- When worn on the body, always place the handheld computer in a Motorola-approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use of non-Motorola-approved accessories may result in exposure levels, which exceed the IEEE/ICNIRP general population/uncontrolled environment RF exposure limits.
- If you are not using a body-worn accessory and are not using the handheld computer in the intended use position, along side the head in the phone mode, in front of the face in the hand held mode, then ensure the handheld computer is kept 2.5 cm (one inch) from the body when transmitting. Keeping the handheld computer at a proper distance is important because RF exposures decrease with increasing distance from the computer.

#### **Phone Mode - Operating Instructions**

- When placing or receiving a phone call, hold the product as you would a wireless telephone, and talk directly into the microphone.

#### **Approved Accessories**

- Use only Motorola-approved supplied or replacement, batteries, and accessories. Use of non-Motorola batteries and accessories may exceed IEEE/ICNIRP RF exposure guidelines.

For a list of Motorola-approved batteries and other accessories please see your dealer or local Motorola contact. Your nearest dealer can be found at the following web site:

<http://www.motorola.com/cgiss/emea/dealerlocator.html>

#### **Additional Information**

For additional information on exposure requirements or other training information, visit:

<http://www.motorola.com/rfhealth>.

### **Electromagnetic Interference/Compatibility**

**NOTE:** Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed or otherwise configured for electromagnetic compatibility.

## Facilities

To avoid electromagnetic interference and/or compatibility conflicts, turn off your handheld computer in any facility where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.

## Aircraft

When instructed to do so, turn off your handheld computer when on board an aircraft. Any use of a handheld computer must be in accordance with applicable regulations per airline crew instructions.

## Medical Devices

### Pacemakers

The Advanced Medical Technology Association (AdvaMed) recommends that a minimum separation of 15 cms (6 inches) be maintained between a handheld computer with wireless radios and a pacemaker. These recommendations are consistent with those of the U.S. Food and Drug Administration.

Persons with pacemakers should:

- ALWAYS keep the handheld computer more than 15 cms from their pacemaker when the handheld computer is turned ON.
- Not carry the handheld computer in the breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- Turn the handheld computer OFF immediately if you have any reason to suspect that interference is taking place.

### Hearing Aids

Some digital handheld computer with wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer 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 RF energy. Your physician may be able to assist you in obtaining this information.

## Use of Communication Devices While Driving

Always check the laws and regulations on the use of radios in the areas where you drive.

- Give full attention to driving and to the road.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions or regulations so require.



## WARNING OPERATIONAL WARNINGS

### For Vehicles with Air Bags

**Refer to vehicle manufacturer's manual prior to installation of electronic equipment to avoid interference with air bag wiring.**

Do not place the handheld computer in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a handheld computer is placed in the air bag deployment area and the air bag inflates, the handheld computer may be propelled with great force and cause serious injury to occupants of the vehicle.

### Potentially Explosive Atmospheres

**(Explosive atmospheres refer to hazard classified locations that may contain hazardous gas, vapors, or dusts.)**

Turn off your handheld computer prior to entering any area with a potentially explosive atmosphere. Do not remove, install, or charge batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.

The areas with potentially explosive atmospheres referred to above include fuelling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles, such as grain, dust or metal powders. Areas with potentially explosive atmospheres are often but not always posted.

### Blasting Caps and Blasting Areas

To avoid possible interference with blasting operations, turn off your handheld computer when you are near electrical blasting caps, in a blasting area, or in areas posted: "Turn off radio". Obey all signs and instructions.



## Caution OPERATIONAL CAUTIONS

### Batteries

All batteries can cause property damage and/or bodily injury such as burns if a conductive material such as jewellery, keys, or beaded chains touch exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects.

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September, 2006

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