

## The Fine Print Manufacturer Warnings

All manufacturers of wireless devices have warnings which describe the minimum distance devices must be kept away from users. For example, the FCC sets exposure limits for laptops and tablets that are tested 20 cm or about 8 inches away from the body. These limits apply to a 220 pound male for 30 minutes.

### Instructions to “KEEP A DISTANCE” from the Antennae

**Blackberry Bold 9930:** “Keep the BlackBerry device at least 0.59 in. (15 mm) from your body (including the abdomen of pregnant women and the lower abdomen of teenagers) when the BlackBerry device is turned on and connected to the wireless network.”

**iPads:** “to be sure that human exposure to RF energy does not exceed the FCC, IC, and European Union guidelines, always follow these instructions and precautions: Orient the device in portrait mode with the Home button at the bottom of the display, or in landscape mode with the cellular antenna away from your body or other objects.”

**Samsung 3G Laptop:** “Usage precautions during 3G connection : Keep safe distance from pregnant women’s stomach or from lower stomach of teenagers. Body worn operation: Important safety information regarding radiofrequency radiation (RF) exposure.To ensure compliance with RF exposure guidelines the Notebook PC must be used with a minimum of 20.8 cm antenna separation from the body.”

**X Box 360 Gaming Console:** To comply with IC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

**iPhone 4:** “ To be sure that human exposure does not exceed the FCC guidelines, always follow these instructions... keep iPhone at least 15 mm (5/8 inch) away from the body, and only use carrying cases, belt clips, or holders that do not have metal parts and that maintain at least 15 mm (5/8) inch separation between the iPhone and the body.” To view the information on your iPhone go to Settings > General > About > Legal > RF Exposure.

**Belkin WIFI Router Manual:** “Caution: Exposure to Radiofrequency Radiation: The device shall be used in such a manner that the potential for human contact normal operation is minimized. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.”

**HP Printer:** “In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.”

**Baby Monitor Motorola MBP33:** The Baby unit shall be installed and used such that parts of the user's body other than the hands are maintained at a distance of approximately 20 cm (8 inches) or more.

### Why are these Fine Print Warnings important?

If these distances are not maintained, people can be exposed to radiation at levels that exceed the current FCC standard, potentially exposing them to thermal exposures. For example a Laptop on the lap could be up to 100 times the FCC level. Since the FCC level only protects us from thermal levels, a greater concern is the long term impact at even lower *non thermal* levels from people sleeping and living in this radiation.