

## SAR

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THIS AURA, MYSTRAL OR ODYSSEY PHONE MEETS THE EU REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Before a phone model is available for sale to the public, compliance with the European R&TTE directive (1999/5/CE) must be shown. This directive includes as one essential requirement the protection of the health and the safety for the user and any other person. Your mobile phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the limits for exposure to radiofrequency (RF) energy recommended by The Council of the European Union<sup>1</sup>. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines were developed by independent scientific organisations through periodic and thorough evaluation of scientific studies. The limits include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for mobile phones (CENELEC standard EN 50360: 2000) employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit<sup>2</sup> recommended by The Council of the European Union is 2.0 W/kg. Tests for SAR have been conducted using standard operating positions (with reference to CENELEC standard EN 50361: 2000) with the phone transmitting at its highest certified power level in all tested frequency bands<sup>3</sup>. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a base station antenna, the lower the power output.

The highest SAR value for this Trium Aura, Mystral or Odyssey model when tested for compliance against the standard was 1.120 W/kg. While there may be differences between the SAR levels of various phones and at various positions, they all meet the EU requirements for RF exposure.

There are a number of independent sources of information available to users including: *Royal Society of Canada*: [www.rsc.ca](http://www.rsc.ca)

The International Commission on Non-Ionizing Radiation Protection (ICNIRP): [www.icnirp.de](http://www.icnirp.de)

The US Food and Drug Administration: [www.fda.gov/cdrh/ocd/mobilephone.html](http://www.fda.gov/cdrh/ocd/mobilephone.html)

*The World Health Organization*: [www.who.int/emf](http://www.who.int/emf)

Mitsubishi Electric belongs to the MMF, an international association of radio equipment manufacturers.

The MMF produces information such as this in accordance with its purpose of developing and presenting industry positions to independent research organisations, government and other research bodies.

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1. European recommendation 1999/519/CE
  2. The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of tissue. The limit incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements
  3. The maximum level of GSM emitted power is 250mW at 900 MHz and 125 mW at 1800 MHz according to the GSM standard.