Electromagnetic energy of various kinds and from multiple sources surrounds us and is partially absorbed by the human body. This energy comes from both unintentional (e.g. most power tools or appliances, or the sun) and intentional (e.g. microwave ovens, or radio transmitters) sources. Human exposure to radiated electromagnetic energy is not a new phenomenon, but the number of sources has intensified over the past 20-30 years.

The International Commission on Non-Ionizing Radiation Protection (ICNIRP), a non-governmental organization recognized in the field of Non-Ionizing Radiation (NIR) protection by The World Health Organization (WHO), has established international guidelines on radiation limits due to human exposure to electromagnetic fields (please see page 2 for a definition of ionizing and non-ionizing radiation).

Internationally harmonized testing methods have been developed and agreed upon allowing manufactures to adopt common test methodologies and thereby ensuring consistency in consumer documentation.

For mobile phones and wireless headsets using UHF frequencies, the exposure is evaluated using the SAR (Specific Absorption Rate) method. SAR is a measure of the time-averaged energy absorption per mass unit. SAR values may be measured as full-body or localized (like the head). A localized SAR-value of more than 4 W/kg may produce adverse health effects in people exposed to radiation. Recommended localized SAR-levels for products such as wireless headsets and mobile phones are less than 2 W/kg according to the ICNIRP, Federal Communications Commission (FCC) requirements for USA and the European Recommendation 1999/S19/EC.*

Jabra wireless headsets exceed standards
Jabra produces professional wireless headsets based on DECT and Bluetooth® wireless technologies.

DECT (Digital Enhanced Cordless Telecommunication) a common standard for wireless telephony, messaging and data transmission. It is a wireless technology suited for voice, data and networking applications in residential, corporate and public environments, and with range requirements up to a few hundred meters. Jabra DECT products operate using radio signals in the frequency band from 1880 to 1930 MHz. The output power of Jabra DECT equipment is very low, between 0.01 and 0.250 W.

Bluetooth® is a low powered standard technology for radio communication. It is a common standard for wireless machine-to-machine communication, data transmission and voice communication especially in wireless headsets. It is a radio technology suited for residential, corporate and public environments with range requirements from 10 up to 100 meters.

Jabra Bluetooth® products operate using radio signals in the frequency band from 2402 to 2480 MHz. The output power of Jabra Bluetooth® equipment is very low, between 0.001 W and up to 0.100 W.

In the European Union, SAR evaluation or measurement is part of the essential requirements of the Radio Equipment directive. The CE mark shows that the product has evaluated and approved. In the US, the FCC (Federal Communications Commission) regulation calls for SAR evaluation or measurement. The FCC ID shows that the product has been evaluated and approved.

All of Jabra’s wireless headsets comply with - and most are in fact well below limits of - international safety standards set for human exposure to radiation.

*Specific Absorption Rate (SAR) - Limits US level at or below 1.6 W/kg
1 gram of tissue EU level at or below 2.0 W/kg 10 grams of tissue
Jabra levels

Jabra headset SAR levels
SAR values are measured by independent test centers.

Jabra focus on safety
The actual SAR level of Jabra’s wireless headsets while operating will often be well below this level, as the headsets are designed to use the minimum power required to communicate with their base. Tests for SAR are conducted using internationally acknowledged standardized methods with the headset and base station transmitting at their highest certified power level.

The safety of people who use headsets is of utmost importance to us, and Jabra continuously monitors research and results published in the area of non-ionizing electromagnetic radiation. Extensive independent research over more than 30 years has investigated the risk of adverse health effects related to the use of wireless devices like headsets or mobile phones and scientific knowledge in this area is quite extensive with more than 25,000 articles published. Based on this comprehensive insight the WHO concludes that current evidence does not confirm the existence of any health consequences from exposure to low level electromagnetic fields from wireless headsets based on e.g. DECT and Bluetooth®.

For further information please visit:
WHO
Independent information on health related to electromagnetic radiation: www.who.int/peh-emf/en

The International EMF Project
A WHO programme to identify research needs and recommend research, perform health risk assessments and produce information material concerning electromagnetic fields. https://www.who.int/health-topics/electromagnetic-fields#tab=tab_1

International Commission on Non-Ionizing Radiation Protection (ICNIRP)
ICNIRP is an independent scientific organization responsible for providing advice on non-ionizing radiation exposure. www.icnirp.org

Mobile & Wireless Forum (MWF)
MMF is an international association of radio communications equipment manufacturers. www.mwfa.org

Find out more
Different working environments demand different headset solutions. The Jabra range of headsets for Contact Centers embraces suppliers and operators of DECT based terminals, systems, and networks. www.dect.org

Product overview

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1 SAR values may differ for similar technologies due to different measuring standards in the two regions.
2 Formal SAR testing exempted for average output power below 20 mW
3 Formal SAR testing exempted through KDB 447498 D01 based on output power and separation distance