HOLOSAN®

5G ESMOG protect+

5G – New Challenges in the Age of Digital Connectivity

5G, Wi-Fi and other artificially generated electromagnetic oscillations and electromagnetic fields may, under certain conditions, interfere with or disrupt naturally occurring electromagnetic fields. These natural fields are considered evolutionary parameters and play an important role in the orientation and regulation of bodily functions [1].

The potential impact of electromagnetic fields on human health and the environment has been the subject of extensive scientific investigation for many years. Numerous researchers, physicians and scientific institutions have examined the possible effects of artificial electromagnetic fields and their interaction with biological systems.

Detailed information and research findings can be found in publications and reports by the Kompetenzinitiative [2, 3], the BioInitiative Working Group [4], the European Environment Agency [5], the Swiss Federal Office for the Environment (FOEN) [6], the International Agency for Research on Cancer (IARC) of the World Health Organization (WHO) [7], the National Institute for the Study and Control of Cancer and Environmental Diseases [8], as well as other internationally recognised research organisations. These publications discuss and evaluate the potential health implications of exposure to artificial electromagnetic fields in detail.

o address concerns relating to 5G and other sources of artificial electromagnetic exposure, we have developed the **HOLOSAN 5G ESMOG protect+**, based on the well-established principle of superposition [9]. The principle of superposition (interference) states that when oscillations or field strengths overlap, the resulting effect is the geometric sum of the individual oscillations or field components.
The **HOLOSAN 5G ESMOG protect+** utilises a specially developed neutralising oscillation that is designed to interact with existing electromagnetic fields. Through the principle of superposition, these oscillations are overlaid to promote a more balanced electromagnetic environment and contribute to a greater sense of comfort, security and well-being in modern living and working spaces.
As the enhanced version, the **HOLOSAN 5G ESMOG protect+** model offers increased capacity and is particularly suited to larger areas and more demanding environments.

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[4] BioInitiative Working Group. BioInitiative Report 2012: A Rationale for Biologically-Based Exposure Standards for Low-Intensity Electromagnetic Radiation. Available at: https://bioinitiative.org (accessed 30 September 2021).
[5] European Environment Agency (EEA). Late Lessons from Early Warnings. EEA Report No. 1/2013. ISSN 1725-9177.
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[7] International Agency for Research on Cancer (IARC). Non-Ionizing Radiation, Part 2: Radiofrequency Electromagnetic Fields. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 102, Lyon, 2013.
[8] Ramazzini Institute / ICEMS. Non-Thermal Effects and Mechanisms of Interaction Between Electromagnetic Fields and Living Matter. ICEMS Monograph, Volume 5. National Institute for the Study and Control of Cancer and Environmental Diseases “Bernardino Ramazzini”, Bologna, 2010.
[9] PHILIPPOW, E. - Handbook of Electrical Engineering, Volume 1. (Taschenbuch Elektrotechnik, Band 1).
[10] HOLOSAN® 5G ESMOG protect and HOLOSAN® 5G ESMOG protect PLUS are manufactured in Germany in compliance with applicable CE requirements, are patented, and undergo EMC-controlled quality assurance procedures.

www. 5G-protect.com

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