The Gamma Sapiens intellectual gamma radiation detector is designed to measure the level of radiation and accumulated dose in everyday life.
It works with smartphones/tablets running Android™ OS over the Bluetooth interface in real time using the GS Ecotest application that is available on Google Play.
Android is a trademark of Google Inc.

Key features of Gamma Sapiens

- radiation level can be measured distantly (up to 5 m between the detector and the smartphone/tablet). It enables the user to avoid the risk of radiation exposure;
- while measuring radiation you can use your smartphone/tablet functionally;
- the user can choose the most handy form of dosimetric data representation;
- dosimetric data can be stored in a database on the smartphone/tablet with the possibility to further view it within a certain period of time;
- wide operating temperature range – from -18 °C to +50 °C (0°F to 122°F);
- rugged body – ingress protection rating IP30;
- independent power supply – two AAA batteries.

Gamma Sapiens is intended for

- monitoring of personal radiation safety;
- monitoring of apartments, buildings and constructions, household items, clothes, banknotes, soil surface and vehicles exposed to radiation;
- evaluation of the radiation situation in areas for nature-based recreation, tourism, hunting, and fishing.

About Gamma Sapiens

The Gamma Sapiens intellectual gamma radiation detector is intended for owners of smartphones and tablets running Android OS to measure the radiation level and dose in everyday life.

The device continuously transfers dosimetric data to the smartphone/tablet running Android OS via Bluetooth channel. With the help of GS Ecotest application this information is processed, displayed in a user-friendly way and stored in a special database.

GS Ecotest can be downloaded from Google Play* for absolutely free.
*Google Play is a trademark of Google Inc

Note. Gamma Sapiens intellectual gamma radiation detector is a device for household use only. None official measurements can be performed by Gamma Sapiens, since it is not a subject to verification. But Gamma Sapiens is calibrated after manufacture according to standard sources of ionizing radiation

Features

- high dynamics and reliability of measurement results;
- built-in Geiger-Muller counter of high sensitivity (it will take just 10-15 s for a quick evaluation of the normal radiation background level);
- communication with smartphones/tablets running Android OS via Bluetooth;
- transfer of dosimetric information to the smartphone/tablet in real time;
- LED-based alarm of the smartphone/tablet connection;
- LED-based alarm of the battery discharge;
- wide operating temperature range – from -18 °C to +50 °C (0°F to 122°F);
- ingress protection rating – IP30;
- power supply – two AAA batteries.

Technical Specification

	Name	Unit of measurement	Standardized value
1	Measurement range of gamma radiation DER	μSv/h	0,1 – 5000
2	Main relative permissible error limit of gamma radiation DER measurement with confidence probability of 0.95 (calibrated relative to ^{137}Cs)	%	25+2/H^*(10), where H^*(10) is a numeric value of the measured DER in μSv/h
3	Measurement range of gamma radiation DE	mSv	0,001 - 9999
4	Main relative permissible error limit of gamma radiation DE measurement with confidence probability of 0.95	%	25
5	Energy range of registered gamma radiation	MeV	0,05 – 3,00
6	Energy dependence of the detector readings at gamma radiation DER and DE measurements in the energy range from 0.05 MeV to 1.25 MeV	%	±25
7	Range of the Bluetooth interface for a smartphone/tablet connection, not less than	m	5
8	Battery life (ENERGIZER AAA×2 of 1280 mAh capacity) under natural background radiation conditions, not less than	hour	60
9	General operating supply voltage of the detector from two AAA batteries	V	3,0
10	Dimensions, not more than	mm	19x40x95
11	Weight without batteries, not more than	kg	0,05

Note:
DER – ambient dose equivalent rate;
DE – ambient dose equivalent.

Delivery Kit

- "Gamma Sapiens" intellectual gamma radiation detector;
- leather case;
- operating manual;
- AAA batteries – 2 pcs;
- packing box.

Software

Key features of GS Ecotest application:

•works with the smartphones/tablets running Android OS;

•displays dosimetric data received from the Gamma Sapiens detector via Bluetooth interface on the screen of the Android smartphone/tablet in a user-friendly interface in real-time;

•stores dosimetric data in the database on the Android smartphone/tablet;

•processes and displays previously saved information;

•enables the user to use all other functions of the smartphone/tablet (making and receiving calls, sending and receiving messages, starting and using other applications, etc.) without interrupting the process of measurement and loss of data;

•GS Ecotest can be downloaded from Google Play for absolutely free.