

Personal Radiation Detector



Main
Features

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Applications

- ▶ **Modern CdZnTe detector technology**
- Energy compensated**
- Dosimeter, Survey and MCS functions**
- Advanced search algorithm RiSearch (TM)**
- Rugged dust and splash-proof case**
- Free PC software tool "GT2-1 Configurator"**
- Isotope ID evaluation**

- ▶ **Individual radiation protection**
- Radiation control**
- Customs and border patrol**
- Industrial and transport radiation monitoring**
- Civil defense, security and police**
- Building protection and emergency service**
- Medicine and health physics**

Personal Radiation Detector γ -Tracer GT2-1

Personal Radiation Detector (PRD) γ -Tracer Model GT2-1 is a pocket-size device with built-in high sensitive room temperature operating semiconductor CdZnTe detector. The PRD can be used as a dosimeter, to detect, measure and locate gamma-radiation sources. In case of the radiation danger, the PRD alerts a user by vibration and/or audible and/or visual signals.

The PRD γ -Tracer is an energy-compensated device allowing accurate evaluation of the dose rate and dose equivalent of the X-ray and gamma radiation. It automatically monitors environment and alerts user in case of the radiation threat. The device allows setup the alarm levels and updating background calibration for operation in changing radiation environments.

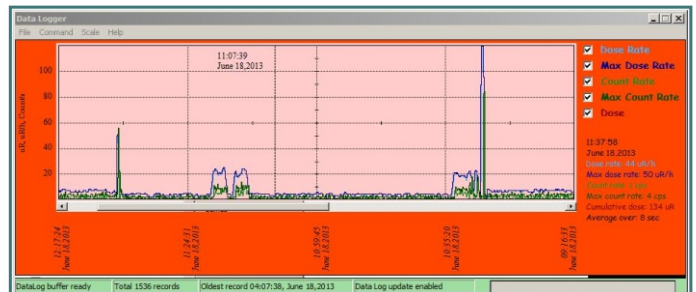
An intelligent search mode algorithm RiSearch™ provides fast response time and allows detecting and locating low-intensity gamma-radiation sources.

The device has a shock, dust and splash-proof case and LCD screen with backlight for operation in unfavourable environment conditions. It can be carried in the pocket or clipped to a belt.

Up to 3000 events and data samples can be recorded and stored in a non-volatile memory. The PRD γ -Tracer is capable to communicate with PC via USB port. The user software package "GT2-1 Configurator" is made to facilitate quick runtime parameters setup and has graphical tools for data log analysis.

Specifications

• detector type	CdZnTe
• detector volume	400 mm ³
• energy range	30 keV to 3.0 MeV
• dose rate	0.05 μ Sv/h - 1000 μ Sv/h
• dose	0.05 μ Sv - 10 Sv
• density for ¹³⁷ Cs, no less	15 s ⁻¹ /(μ Sv/h)
• alarm type	light, audio, vibration
• external headphone alarm	yes
• data recording	up to 3000 acquisition samples
• PC communication	via USB port
• USB connector	micro USB, type A or B
• audio jack	standard stereo, Ø3.5 mm
• time/date mode	yes
• LCD	98 x 64 pixels with backlight
• environmental protection	IP65
• power supply	two Li-Ion rechargeable battery
• operating time (without LCD backlight and alarms)	up to 800 h
• operating temperature	-10 °C to 50 °C
• low battery warning	yes
• dimensions	122 mm x 69 mm x 33 mm
• weight	200 gram



Window "Data Logger"
of the user software "GT2-1 Configurator"

Communication with PC
via USB connection

