



Innovating Radiation Detection Technologies Since 1992

GAMMA DETECTOR PM1904

POLISMART[®] II



Small-sized and efficient Add-on for the iPhone is our trend-new networked gamma detector. iPhone users are able to continuously monitor environmental radiation background and individual radiation exposure.

Polismart[®] II turns into the perfect even kids-friendly and easy-to-use smart solution for everyone concerned about radiation safety. Everywhere: work, travel, home. No special knowledge needed.

Distinguishing features

- Access to the shared radiometric database of all Polismart[®] II integrated to the system
- Network integration into the unified geo information system Flash Radiation Monitor™
- Data exchange between Polismart[®] II users
- Measurements transmission on Twitter and Facebook
- Capability to create radiation map

Autonomous operation mode

- Continuous monitoring and control of ambient Dose Equivalent (DE) and ambient Dose Equivalent Rate (DER) measurements
- Independent LED alarm
 - DER threshold is exceeded
 - DE threshold is exceeded
 - Low battery indication

iPhone connection mode

- DER and DE instant read-out
- DER and DE thresholds settings
- History of measurements
- Access to the radiological geo information system and radiation measurements from all Polismart[®] II users that are depicted in Google Maps
- Geo-linked points and trackings with current radiation background measurements recording ability

Battery lifetime 2200h

- Trendy design
- Petite size, weight 30 g
- Built-in rechargeable battery, charging via USB



ALARM

MEASUREMENT

**Geo information system
Flash Radiation Monitor™**



**Dock
Connector**



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SPECIFICATIONS

Detector	Geiger-Muller
DER indication range	0.01 µSv/h - 13 mSv/h
DER measurement range	0.1 µSv/h - 10 mSv/h
DER Accuracy	$\pm(20+K/\dot{H})\%$ where \dot{H} - DER value, µSv/h K - coefficient 2,0 µSv/h
DE measurement range	1 µSv - 10 Sv
DE Accuracy	Up to $\pm 20\%$
Energy range	0,06 - 1,33 MeV
Energy response relative to 0.662 MeV (¹³⁷Cs) within the whole energy range	$\pm 30\%$
iPhone communication	Dock connector
Data collection	500
Alarm types	LED indicator lights
Power	Built-in rechargeable battery (charging via USB/iPhone)
Battery lifetime	2200 hours at average background < 0.3 µSv/h
Temperature range	0 to +50 °C
Humidity	up to 93% at +30 °C
Water Tightness	IP30
Drop Test	0,7 m onto concrete surface
Dimensions	59 x 45 x 15 mm
Weight	30 g

Design and specifications of the device can be changed without further notice.

