CzechRad

portable dose rate detector with GPS

...inspired by the SAFECAST bGeigie Nano, compatible with existing software tools

Main advantages:

- robust, weatherproof design
- easy to use, no training needed
- reliable and sensitive Geiger-Mueller tube

Great for field radiation mapping:

- sensitive GPS chip
- data recording to SD card
- simply display data on the map using QGIS with our plugin (online/offline) or use SAFECAST.org online services (map, API)

web: https://github.com/juhele/CzechRad

MINISTRY OF THE INTERIOR OF THE CZECH REPUBLIC

ÚSTAV TECHNICKÉ A EXPERIMENTÁLNÍ FYZIKY ČVUT V PRAZE

SÚRO

manufactured within the project:

Centrum pro podporu obyvatelstva pro případ skutečného nebo domnělého vzniku mimořádných jaderných a radiačních událostí

(English: *Center for the support of the population in case of actual or suspected occurence of extraordinary nuclear and radiation events*)

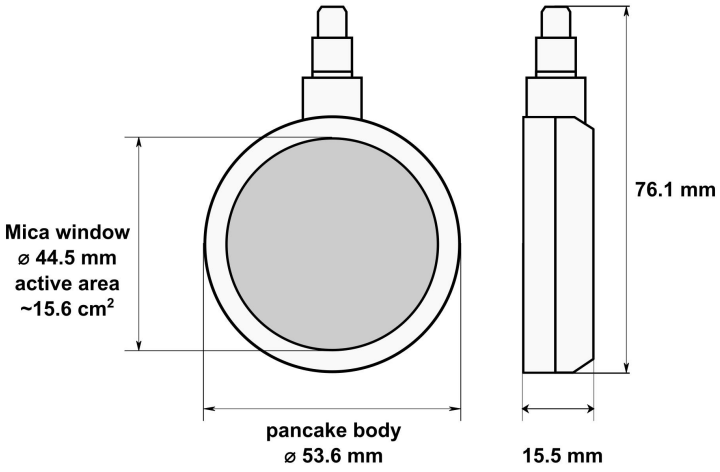
ID: VJ01010116, provider: Ministry of the Interior of the Czech Republic

CzechRad

Technical Specifications

Detector:

- LND 7317 pancake GM tube
- gamma sensitivity Cs-137 (CPS/mR/HR): 58



Case:

- Pelican 1010 Micro Case (polycarbo
- watertight, crushproof, and dustpro
- IP67 rating

Battery:

- Li-Pol 2500 mAh, time for full charge ~ 5 hours
- up to 22 hours battery life of the device

Electronics:

- SAMD21G processor (ARM M0+)
- full-sized SD card slot + miniUSB port for charging and data communication

GPS:

- u-blox NEO-M8N / M9N
- concurrent reception of up to 3 GNSS (GPS, Galileo, GLONASS, BeiDou)
- industry leading –167 dBm navigation sensitivity

Dimensions / weight:

- dimensions: 14.9 x 10.3 x 5.4 cm
- weight: 475 g

For more information visit our website:
https://github.com/juhele/CzechRad
or contact us via email czechrad@suro.cz

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