



# 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



manufactured within the project:

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

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

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



# CzechRad

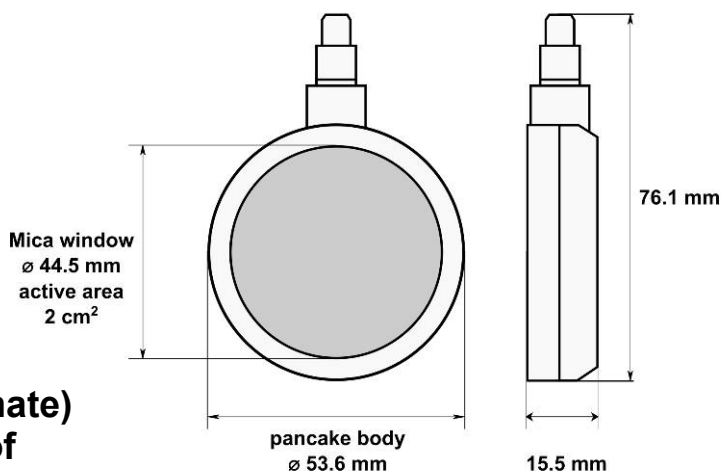
## Technical Specifications

### Detector:

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

### Case:

- Pelican 1010 Micro Case (polycarbonate)
- watertight, crushproof, and dustproof
- 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](mailto:czechrad@suro.cz)



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