

RanidPort Mobile

Spectroscopic Radiation Portal
Monitoring Solution



- Portal monitor for mobile use
- Operator friendly web-based user interface
- Highly sensitive detection and identification of all types of radionuclides

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Spectroscopic Radiation Portal Monitoring Solution



RanidPort Mobile is an advanced movable spectroscopic portal monitor, designed for detecting and identifying radiation sources. It can be integrated into different types of environments or scenarios, including mobile platforms such as vessels, vehicles, trucks, and airplanes, as well as fixed installations.

The RanidPort Mobile's is a relocatable portal monitor solution, a high volume NaI(Tl) scintillation detector with a rapid detection and identification capability in the presence of radioactivity or radioactive material. RanidPort Mobile can serve for both open or covert missions, depending on the site and selected housing.

KEY FEATURES

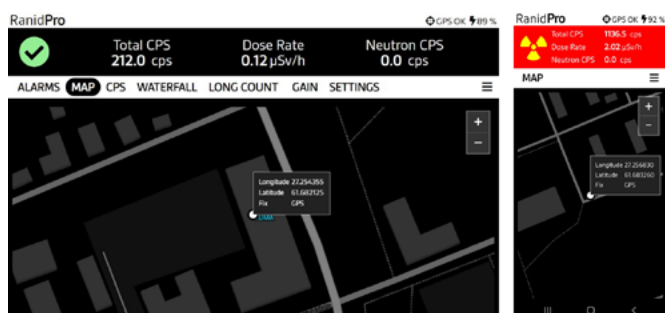
- Easily deployable spectroscopic portal monitor
- Rugged mobile detection and transport case
- Large volume NaI(Tl) gamma detector
- Neutron detection with high energy gamma radiation
- Simple & operator friendly user interface
- Internal mapping tool
- Illustrative history function
- Web-based remote control through any mobile device and/or computer
- Full reach back capability for expert remote support

APPLICATIONS

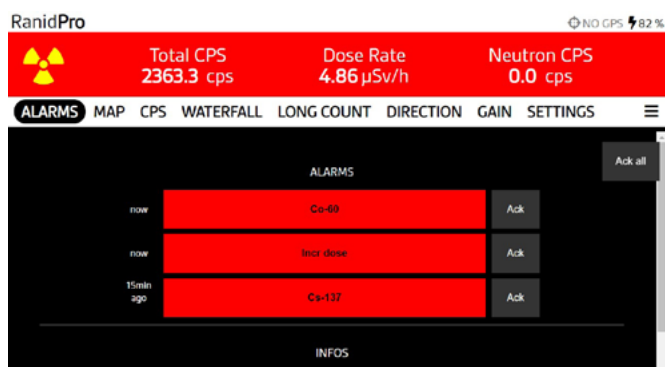
- Airport and railway safety
- Customs and border control
- Passenger and luggage monitoring systems
- Locating orphan sources
- Locating suspicious parcels
- Radiological safety of public events
- Radiological safety of industrial sites

Blending in the Environment

The RandidPort Mobile is an advanced portal detector designed for diverse usage scenarios. The RandidPort Mobile housing is customizable, which enables integration of the portal monitor into various types of environments (e.g. vehicles or other mobile systems and fixed installations). It is also possible to “camouflage” the RandidPort Mobile to fit into the surrounding environment. The basic structure of the RandidPort Mobile is well protected against external shocks and outdoor environment requirements.



Maps view in Randid Software (left: laptop view, right: mobile phone view)



Easy-to-read alarm indication

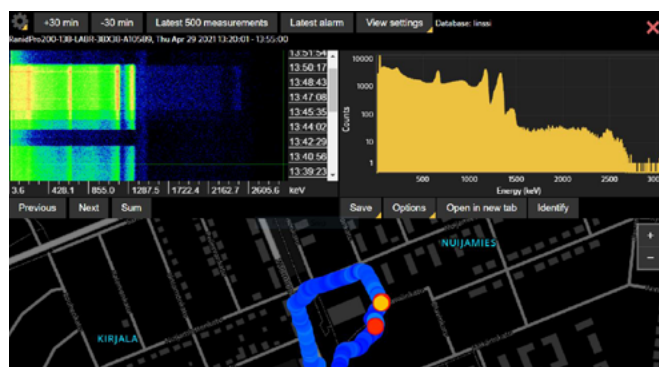
Extremely Low False Alarm Rate

RandidPort Mobile has unique automatic energy stabilization routines, meaning that the detector is able to conduct continuous spectroscopic measurements and analysis. The neutron detector has been designed to reject cross-sensitivity to gamma radiation, meaning that it is not affected by high dose rates. This makes the RandidPort Mobile significantly more sensitive than similar R/N detectors, and helps reducing the false alarms to an absolute minimum, for highly reliable data.

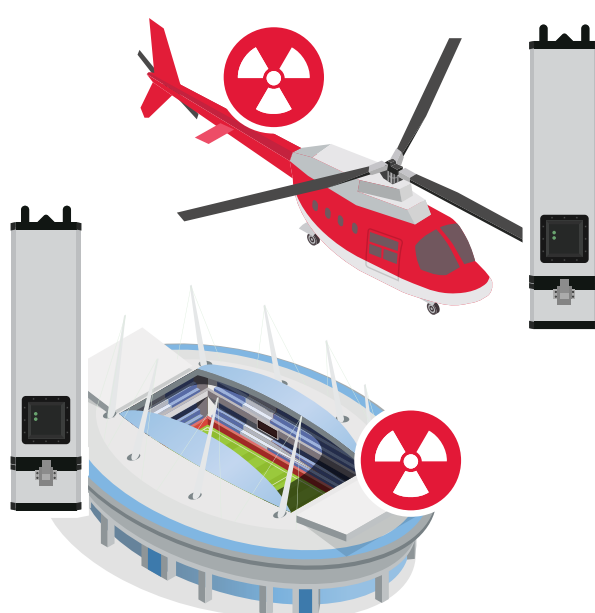
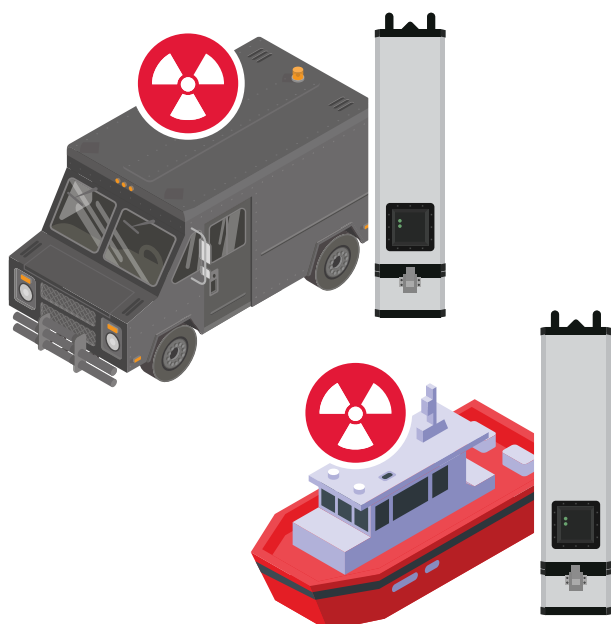
Full Reachback Capability

RandidPort Mobile supports all commonly used wireless data transfer methods, and is able to be in constant contact with the control centers where the experts can process the measurements for more in-depth analysis. This helps to verify the threat rapidly and providing immediate instructions for action.

The full reachback capability is also available via the web-based interface.



Analyzing mission statistic from the web-based user interface



Technical Data

Size	Approx. 998 x 247 x 247mm (39.3" x 9.7" x 9.7")
Weight	Approx. 40 kg (1511 oz.)
Power	100-250 VAC 50-60 Hz 9-36 VDC (Vehicle power)
Battery	12V, 20Ah, Removable battery unit Optional 33Ah battery unit
Communications	Ethernet Wi-Fi (802.11 b/g/n) Optional 4G
Relative Humidity	95% at 35C, non-condensing
Dust & Water Resistance	IP65
Temperature (Operating)	-20 °C to 50 °C (-4 °F to 122 °F)
Temperature (Storage)	-20 °C to 50 °C (-4 °F to 122 °F)
GPS	Build-in sensor
Neutron Detection	Measuring high energy gamma radiation (5 MeV - 8 MeV)
Nuclide Identification & Categorization	Designed to fulfill and exceed standard N42.34 ANSI Isotope list Medical, Industrial, SNM and NORM nuclide categorization Customizable user defined nuclides and ROIs

Front Panel Interface & Features	HDMI connector USB 3.0 connector SIM card slot Alarm and status LEDs Key operated power switch
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Performance

Gamma & Neutrons	4"x4"x16" NaI(Tl) detector
Resolution	<8% at 662 keV
Humidity	0-95% non-condensing
Energy range	30 keV – 8MeV
MCA	2048 channels Maximum Count Rate >250k cps

Remote Control Unit

Type	Any mobile device or computer connected via WIFI or Ethernet
Software	Ranid Monitoring Software Web-based remote-control features by using Web browser
Software Features	Nuclide identification Spectrum analysis Dose rate calculation Gamma and neutron graphical view Comprehensive radionuclide database Audible search tool Spectrogram (Waterfall plot) Alarms with sound Long spectral measurements Internal mapping tool History function with map ANSI N42.42 save/export

