RanidPort Solutions

Spectrometric Radiation Portal Monitoring Solution

Portal detection solutions designed for:

- Fixed and mobile use
- Indoor and outdoor application
- Security applications requiring very high sensitivity to Detect and Identify all types of radionuclides

Environics

For your SAFETY

RanidPort Solutions

Spectrometric Radiation Portal Monitoring Solution

RanidPort solutions are advanced spectrometric portal monitors designed for different types of fixed and mobile applications which complement the Environics RanidVision product family.

RanidPort's high volume NaI(Tl) scintillation detector has rapid detection and identification capability in presence of radioactivity or radioactive material.

Different solutions have been designed to be ideal for pedestrian, vehicle or cargo portal monitors. Relocatable portal monitor solution is also available. Installation can be done on open or covert basis depending on the site.

KEY FEATURES

- Large volume NaI(Tl) gamma detector
- Neutron detection with high energy gamma radiation
- Neutron booster in fixed applications
- Indoor and outdoor solutions
- Fixed and mobile applications
- Flexible configuration: single or double sided and multiple detector portals for vehicle screening applications
- Automated operation with optional camera surveillance system
- Web server based Graphical User interface
- MySQL based spectrometric database

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

RanidPort–N

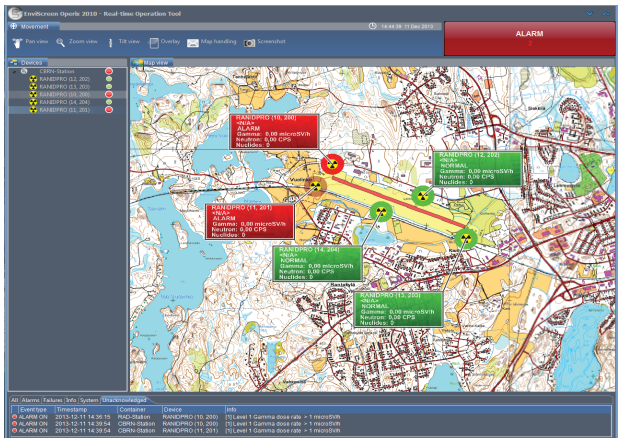
- Designed for fixed indoor applications
- Integrated neutron booster that increases the detection sensitivity of neutrons
- Flexible configuration of the neutron booster: single or double sided detection direction
- Optional backround radiation shield
- Web server based Graphical User interface
- MySQL based spectrometric database

RanidPort–N Industrial

- Designed for rough outdoor applications
- Extended temperature range with heating and cooling accessories
- Integrated neutron booster that increases the detection sensitivity of neutrons
- Flexible configuration of the neutron booster: single or double sided detection direction
- Possibility to create multidetector portals for e.g. cargo screening applications
- Uniform database and user interface features with RanidPort-N

RanidPort Mobile

- Designed for mobile use: car, boat, helicopter or airplane
- Easily deployable spectroscopy portal monitor
- Rugged detection and transport case
- Wireless connection capabilities using WLAN or optionally 3,5G
- Integrated GPS and mapping function
- Standard battery operating time more than 30h
- Compatible with vehicle power systems (9-36VDC)
- Uniform database and user interface features with RanidPort-N



EnviScreen Operix CBRN monitoring system software

- Operational system software with GPS mapping capabilities
- Complete reachback capabilities: Compatibility with Linssi-gamma-ray spectrometry database
- Possibility to include Chemical and Biological detection capabilities into same system
- Optional Integrated Mirasys video surveillance system syncronized with radiation measurement data for source tracking

Technical Data

Performance Specification

Gamma and 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

Nuclide identification and 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
Functions	• Dose rate calculation • Nuclide identification • Spectrum analysis • Comprehensive radionuclide database

Technical Specification

Enclosure	**RanidPort–N**	**RanidPort Mobile**	**RanidPort–N Industrial**
Dimensions	1458 x 394 x 374 mm (57"L x 15"W x 14"H)	955 x 220 x 220 mm (37"L 8"W x 8"H)	1355 x 650 x 450 mm (53"L 25"W x 17"H)
Weight	Approx. 100 kg (220 lbs)	Approx. 40 kg (88 lbs)	Approx. 130 kg (287 lbs)
Power	100-250 VAC 50-60 Hz	100-250 VAC 50-60 Hz 9-36 VDC (Vehicle power)	100-250 VAC 50-60 Hz
Battery	12V, 5Ah, Back-up battery	12V, 40Ah Battery for 24h operation Optional batteries available	12V, 5Ah, Back-up battery
Operation Temperature	0 °C to +50 °C (32 °F to +122 °F)	-20 °C to 50 °C (-4 °F to 122 °F)	-30 °C to +50 °C (-22 °F to +122 °F)
Storage Temperature	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)
Communication (Standard)	Ethernet, Wi-Fi (802.11 b/g/n)	Ethernet, 3.5G, Wi-Fi (802.11 b/g/n)	Ethernet, Wi-Fi (802.11 b/g/n)
GPS	Optional	Build-in sensor	Optional
Neurtron Moderator	Built-in	N/A	Built-in
Dust & Water Resistence	Indoor use	IP65	IP55

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