RanidPort Solutions

Spectrometric Radiation Portal Monitoring Solution

		the second	•		
				-	
		and the second			
			and the second se		
Inter Rain	DEPAR	TURES Time NumberTake	West Gates 🗲		
Constraint 2010 - Validate the cont - Indenicial	BOHEDING 2		To Status Track		
		8:20 3027 HE CORE SIC LIK			and the second se
271 JULYING DIRECT BOOKE 272 BC CORR SEE SHE INTERTON 273 BC CORR SEE SHE INTERTON 274 BC CORR SEE SHE INTERTON 274 BC SHE CORR SEE SHE INCLUSION 275 BC SHE SHE SHE INCLUSION					1.51
ISO ACCENTIONS MUSTOR		8:338 - 3227 NUCONST SEE COR	STRINGFIELD ON TIME		F 193
ING REDINNE CHE R HECHINGTON	ON TIME	8:478 - 6213 818 81821 32	ILCONTR ON TIME		2.4
63 IDIADIONEX & IDDIATOR		3:000 = 2151 BCELA EXPRESS 3:010 3323 NE CORE EXP	and the second se		aTóchQ+
SEC-STOPS AT SECAN -STOPS AT KE	HIRK DISPOST		OPS AT NCHINGE ALAPORT 7:40	April 100	Dieco G.A
00	Um132434	Laggage Deck et 04			
	and the second s	Prop Det 104		3	
Seller A			Page Contract		
					C
		K AND SOM			
				Contraction of the local division of the loc	
	and the second second	Man pary	SIM STATE		
4.2			7 67 0		
				Sec.	
			man file and the second		
	The owner where the party is not				
1 1 m 1					
				0.0	
		and the second second			
				and the second s	
		TABLE AND AREA		·	
				les.	
	10 224				
					/ /
	C. Service			/	
	- All and				
	AND THE REAL				

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



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 Nal(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 Nal(TI) 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" Nal(TI) 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

Functions

•

- Designed to fulfill and exceed standard N42.34 ANSI Isotope list
- Medical, Industrial, SNM and NORM nuclide categorization
- Customizable user defined nuclides
 and ROIs
- Dose rate calculation
- Nuclide identification
- Spectrum analysis
- Comprehensive radionuclide database

Technical Specification

Enclosure	RanidPort-N	RanidPort Mobile	RanidPort-N Industrial
Dimensions	Approx. 1458 x 394 x 374 mm (57"L x 15"W x 14"H)	Approx. 955 x 220 x 220 mm (37″L 8″W x 8″H)	Approx. 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	0 °C to +50 °C	-20 °C to 50 °C	-30 °C to +50 °C
Temperature	(32 °F to +122 °F)	(-4 °F to 122 °F)	(-22 °F to +122 °F)
Storage	-20 °C to +50 °C	-20 °C to +50 °C	-20 °C to +50 °C
Temperature	(-4 °F to +122 °F)	(-4 °F to +122 °F)	(-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

Environics





Environics Oy P.O. Box 349 FI-50101 Mikkeli FINLAND tel. +358 201 430 430 fax. +358 201 430 440 sales@environics.fi www.environics.fi



All operations in Environics have been audited and certified against ISO 9001:2008, ISO 14001:2004 and NATO AQAP 2110 standards. 2015 © Environics Oy. Design and specifications subject to change without notice. RanidPort is a trademark of Environics Oy.